WA-6000

SERVICE MANUAL

E Model
AEP Model
UK Model

SONY
FM/MW/SW 7BAND CASSETTE-CORDER WA-6000
7 BANDS
FM
MW
SW
TUNING

PHOTO : E Model

SPECIFICATIONS

Tape Transport Mechanism	MF-WA6000-06

Radio section

Frequency range	FM: 87.6–107 MHz (AEP Model) 87.6–108 MHz (E, UK Model) SW$_1$: 5.95–6.20 MHz (49 m) SW$_2$: 9.50–9.80 MHz (31 m) SW$_3$: 11.70–12.00 MHz (25 m) SW$_4$: 15.10–15.50 MHz (19 m) SW$_5$: 17.60–18.00 MHz (16 m) MW: 530–1,605 kHz
Antennas	FM/SW: Telescopic antenna MW: Built-in ferrite bar antenna

Tape recorder section and general

Recording system	2-track 1-channel
Speaker	5 cm dia. (2 inches)
Fast winding time	Approx. 2 min. 30 sec. with Sony cassette C-60
Frequency response	90–9,000 Hz
Input	Microphone input jack (minijack) sensitivity 0.2 mV for low impedance microphone
Output	Earphone jack (minijack)
Power output (at 10% harmonic distortion)	230 mW

Battery life (hours)

Batteries	FM recording	Tape playback
Sony New Super SUM-3(NS)	3	4
Sony Eveready AM3 alkaline	6	8

For maximum performance we recommend the use of alkaline batteries.

Power requirements	6 V dc, four batteries IEC designation R6 (size AA) DC IN 6 V jack accepts: optional Sony AC-D4 ac power adaptor available in the United Kingdom for use on 240 V ac, 50 Hz available in European countries for use on 220 V ac, 50 Hz available in other countries for use on 110, 120 or 220 V ac, 50/60 Hz optional Sony DCC-127A car battery cord for use with 12 V car battery or Sony DCC-240 car battery cord for use with 24 V car battery
Dimensions	Approx. 180.5 × 101 × 43 mm (w/h/d) ($7\frac{1}{8} \times 4 \times 1\frac{3}{4}$ inches) not incl. projecting parts and controls Approx. 187.5 × 107.3 × 50 mm (w/h/d) ($7\frac{7}{16} \times 4\frac{1}{4} \times 2$ inches) incl. projecting parts and controls
Weight	Approx. 570 g (1 lb $4\frac{1}{8}$ oz) incl. batteries

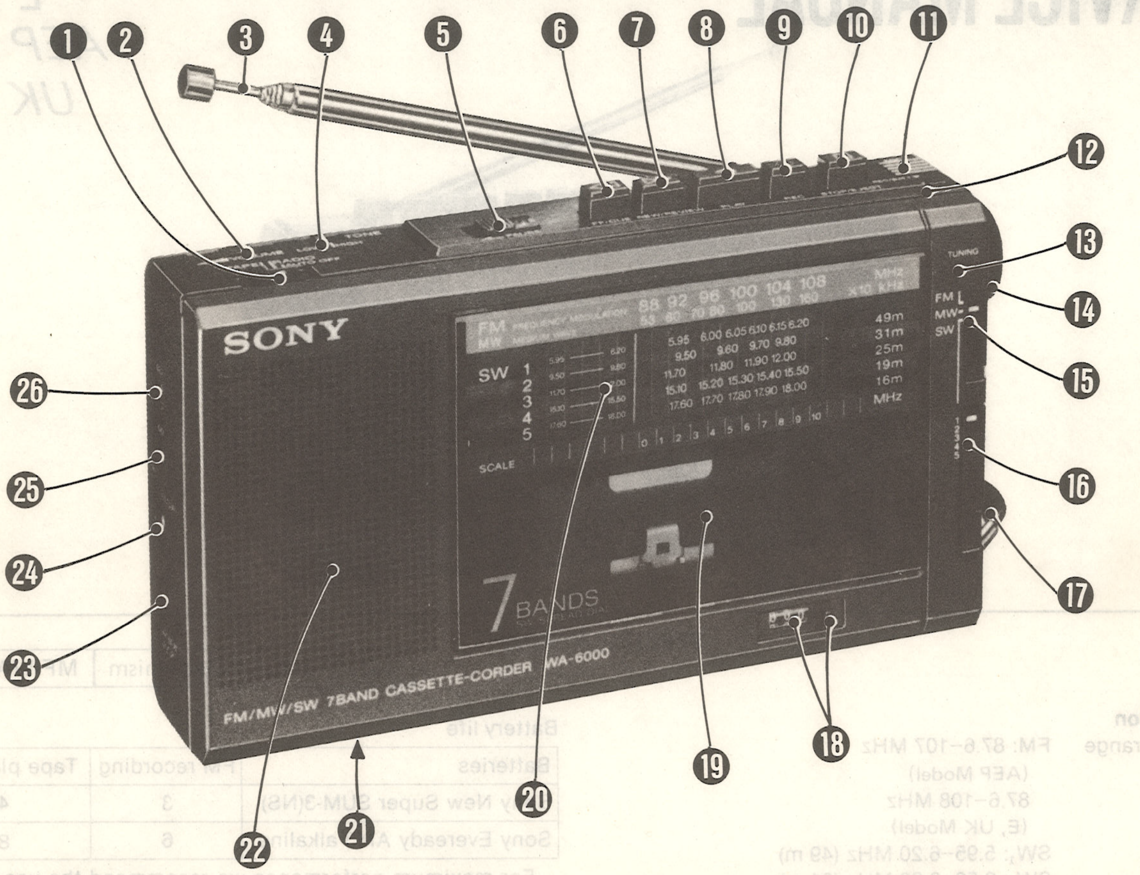
FM/MW/SW1-5 7BAND CASSETTE-CORDER

SONY®

MICROFILM

TC

PARTS IDENTIFICATION


❶
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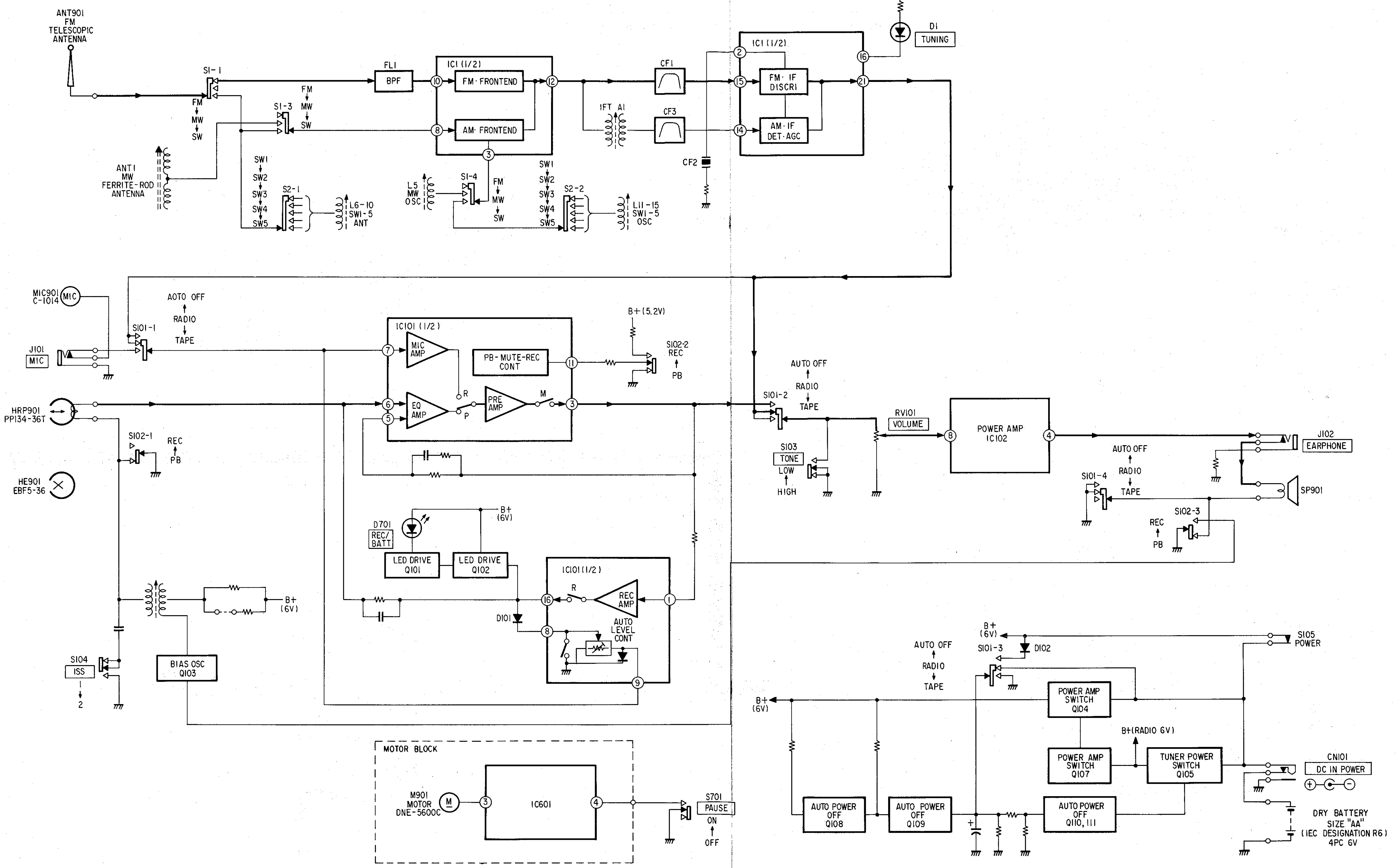
㉔
㉕
㉖
SONY
FM/MW/SW 7BAND CASSETTE-CORDER WA-6000
7 BANDS
SW 1 2 3 4 5
SCALE
FM
MW
MHz
kHz
49m
31m
25m
19m
16m
TUNING

- ❶ Function selector
- ❷ VOLUME control
- ❸ Telescopic antenna
- ❹ TONE selector
- ❺ ▮▮ PAUSE switch
- ❻ ◀◀ FF/CUE (fast-forward/cue) button
- ❼ ▶▶ REW/REVIEW (rewind/review) button
- ❽ ◀ PLAY (playback) button
- ❾ ● REC (record) button
- ❿ ■ STOP/EJECT button
- ⓫ MIC (built-in microphone)
- ⓬ REC/BATT (record/battery) indicator
- ⓭ TUNING indicator
- ⓮ Tuning knob
- ⓯ Band selector
- ⓰ SW band selector
- ⓱ Carrying strap
- ⓲ Tape counter and reset button
- ⓳ Cassette holder
- ⓴ Dial scale
- ㉑ Battery case (bottom)
- ㉒ Speaker
- ㉓ DC IN 6 V (external power input) jack
- ㉔ EARPHONE jack
- ㉕ MIC (microphone) jack
- ㉖ ISS (interference suppress switch)

SECTION 1
OUTLINE

BLOCK DIAGRAM

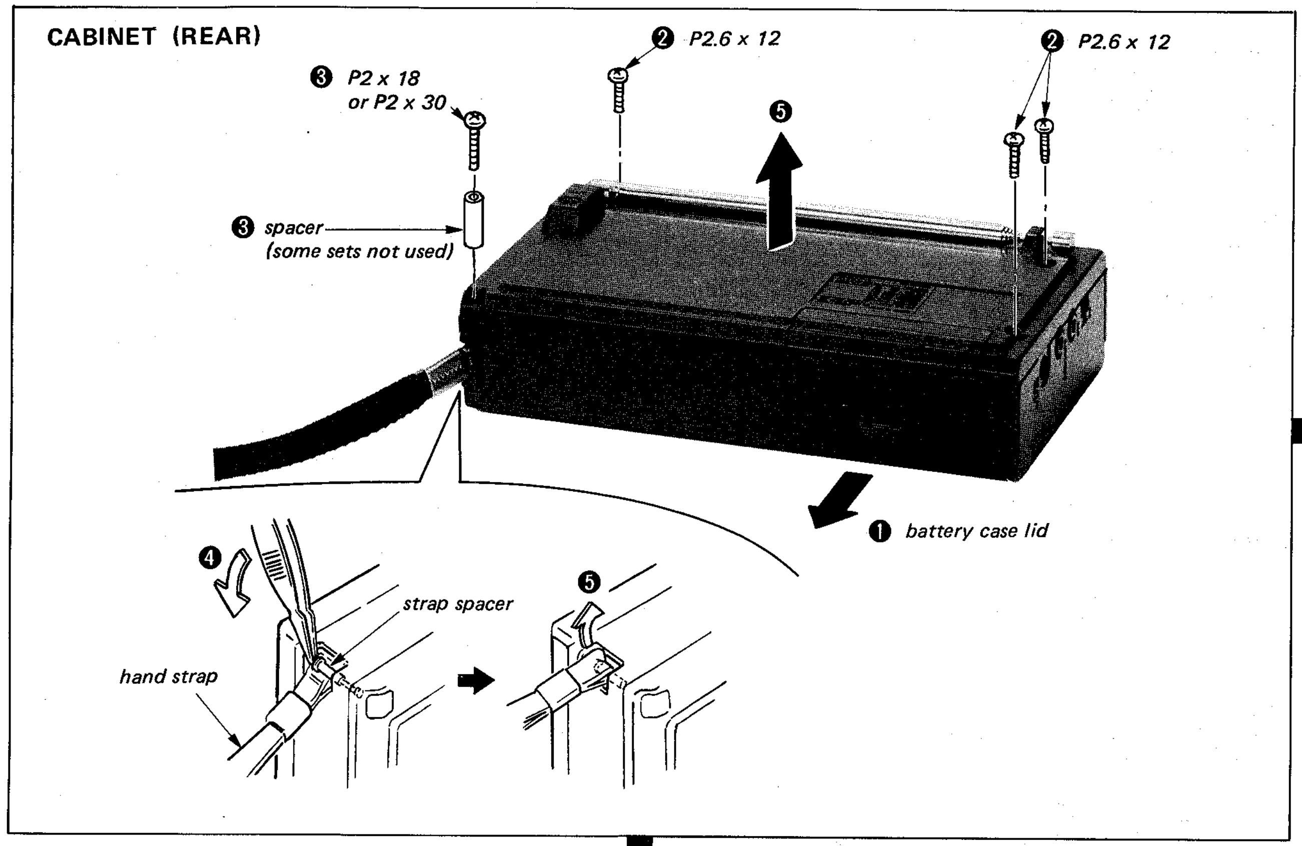

ANT901
FM
TELESCOPIC
ANTENNA
S1-1
FM
MW
SW
S1-3
FM
MW
SW
ANT1
MW
FERRITE-ROD
ANTENNA
SW1
SW2
SW3
SW4
SW5
S2-1
L6-10
SW1-5
ANT
FL1
BPF
IC1 (1/2)
FM·FRONTEND
AM·FRONTEND
L5
MW
OSC
S1-4
FM
MW
SW
SW1
SW2
SW3
SW4
SW5
S2-2
L11-15
SW1-5
OSC
CF1
IFT A1
CF3
CF2
IC1 (1/2)
FM·IF
DISCRI
AM·IF
DET·AGC
B+(5.7V)
D1
TUNING
MIC901
C-1014
MIC
J101
MIC
AOTO OFF
RADIO
TAPE
S101-1
IC101 (1/2)
MIC
AMP
PB-MUTE-REC
CONT
B+(5.2V)
S102-2
REC
PB
HRP901
PP134-36T
EQ
AMP
R
P
PRE
AMP
M
S102-1
REC
PB
HE901
EBF5-36
AUTO OFF
RADIO
TAPE
S101-2
RV101
VOLUME
S103
TONE
LOW
HIGH
POWER AMP
IC102
J102
EARPHONE
SP901
AUTO OFF
RADIO
TAPE
S101-4
S102-3
REC
PB
D701
REC/
BATT
LED DRIVE
Q101
LED DRIVE
Q102
B+
(6V)
IC101 (1/2)
R
REC
AMP
D101
AUTO
LEVEL
CONT
B+
(6V)
S104
ISS
2
BIAS OSC
Q103
MOTOR BLOCK
M901
MOTOR
DNE-5600C
M
IC601
S701
PAUSE
ON
OFF
B+
(6V)
AUTO OFF
RADIO
TAPE
S101-3
D102
S105
POWER
B+
(6V)
POWER AMP
SWITCH
Q104
B+(RADIO 6V)
POWER AMP
SWITCH
Q107
TUNER POWER
SWITCH
Q105
CN101
DC IN POWER
AUTO POWER
OFF
Q108
AUTO POWER
OFF
Q109
AUTO POWER
OFF
Q110, 111
DRY BATTERY
SIZE "AA"
(IEC DESIGNATION R6)
4PC 6V

SECTION 2
DISASSEMBLY

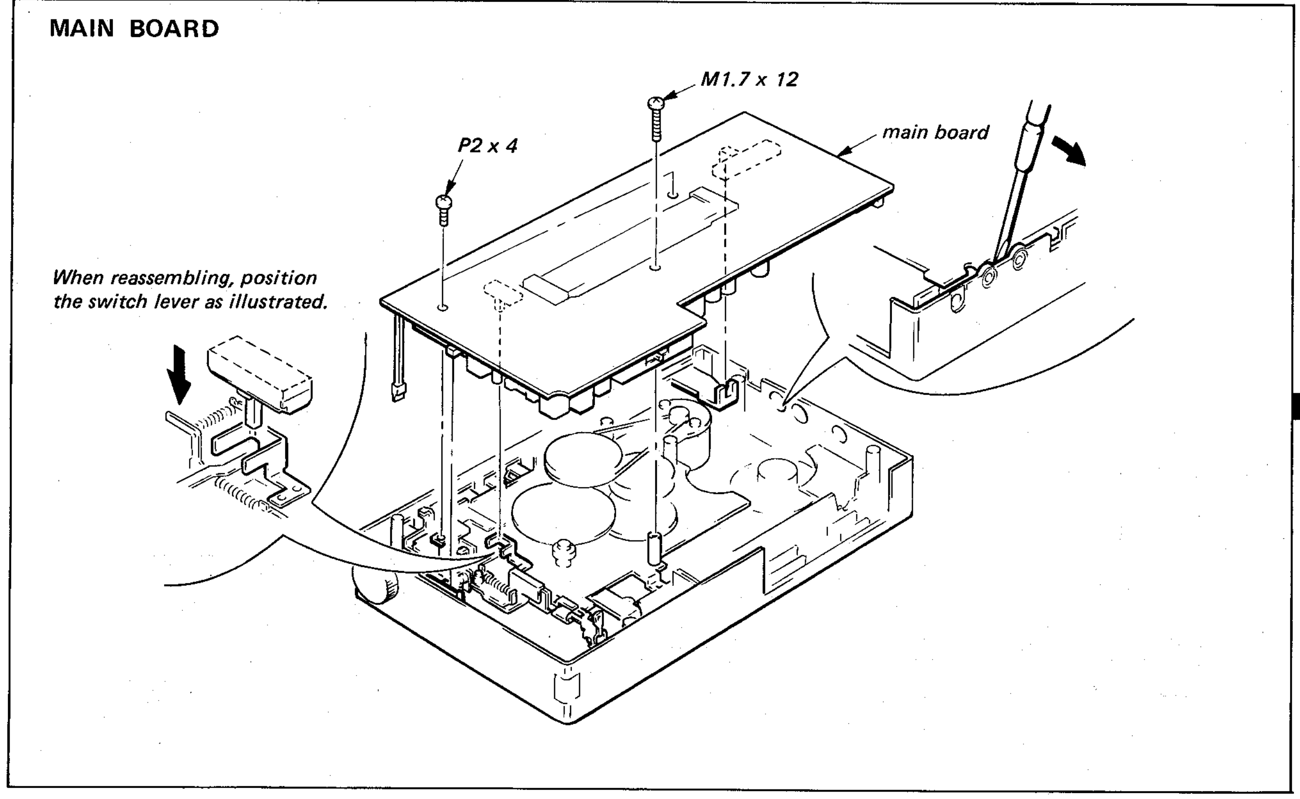
2-1. REMOVAL

Note: Follow the disassembly procedure in the numerical order given.

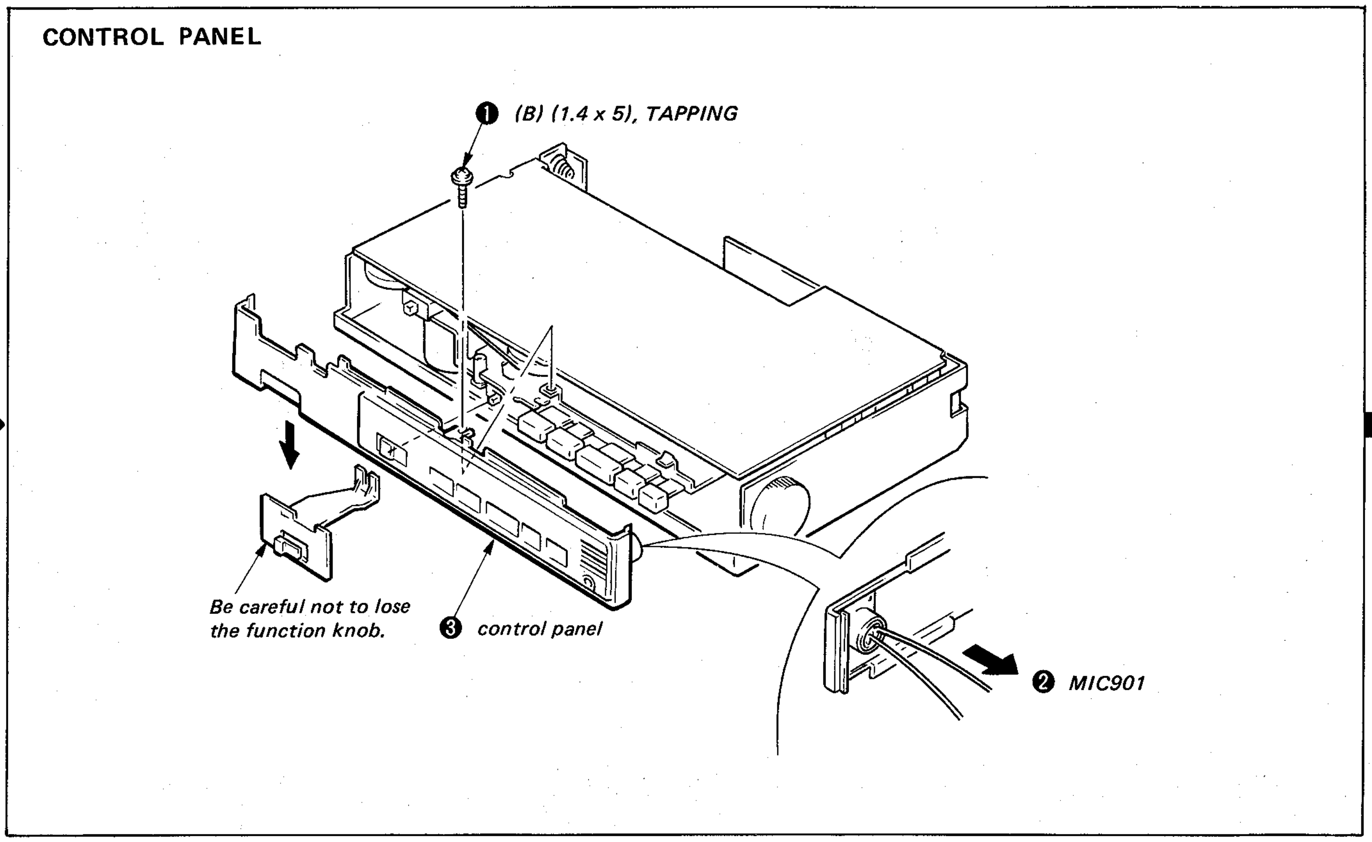
CABINET (REAR)


❷ P2.6 x 12
❷ P2.6 x 12
❸ P2 x 18
or P2 x 30
❺
❸ spacer
(some sets not used)
❶ battery case lid
❹
strap spacer
❺
hand strap

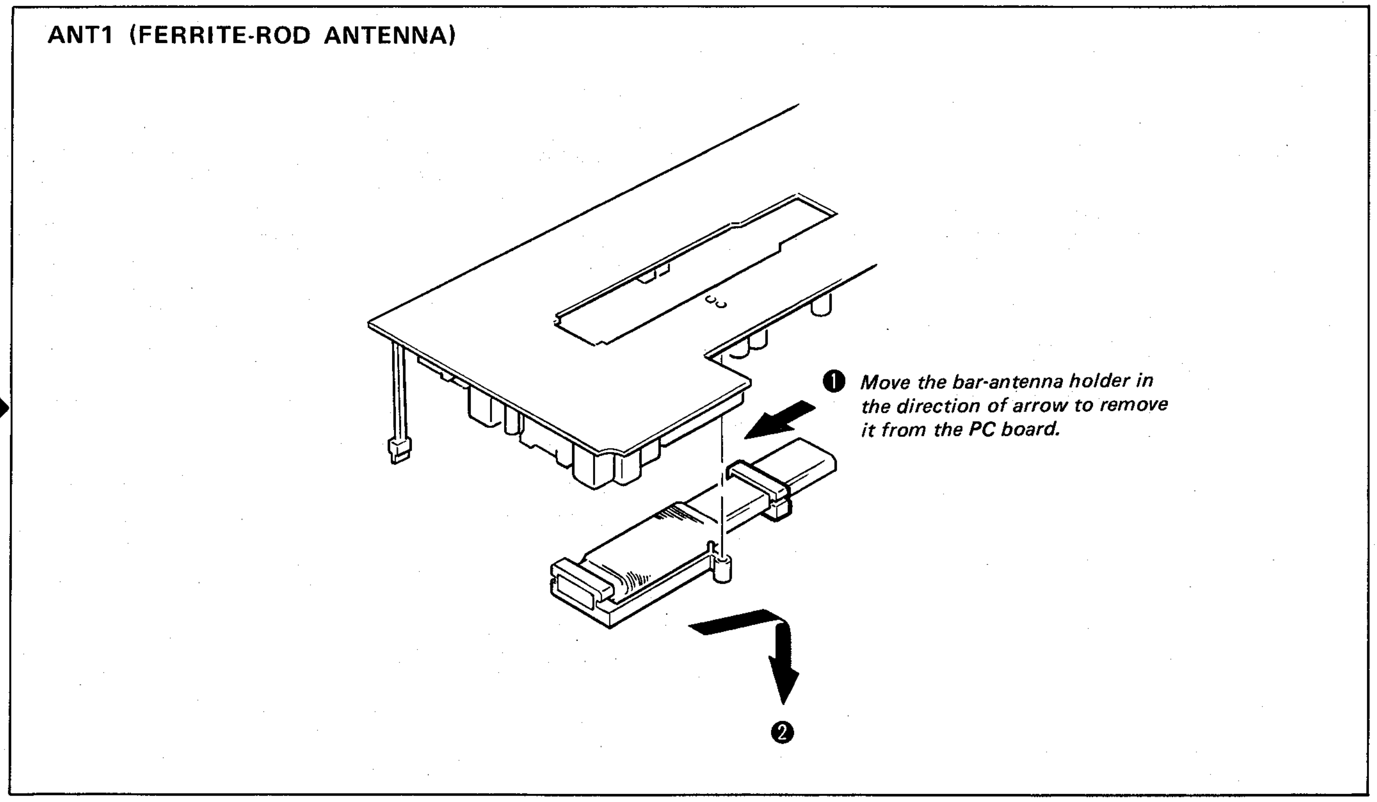
MAIN BOARD


M1.7 x 12
P2 x 4
main board
When reassembling, position
the switch lever as illustrated.

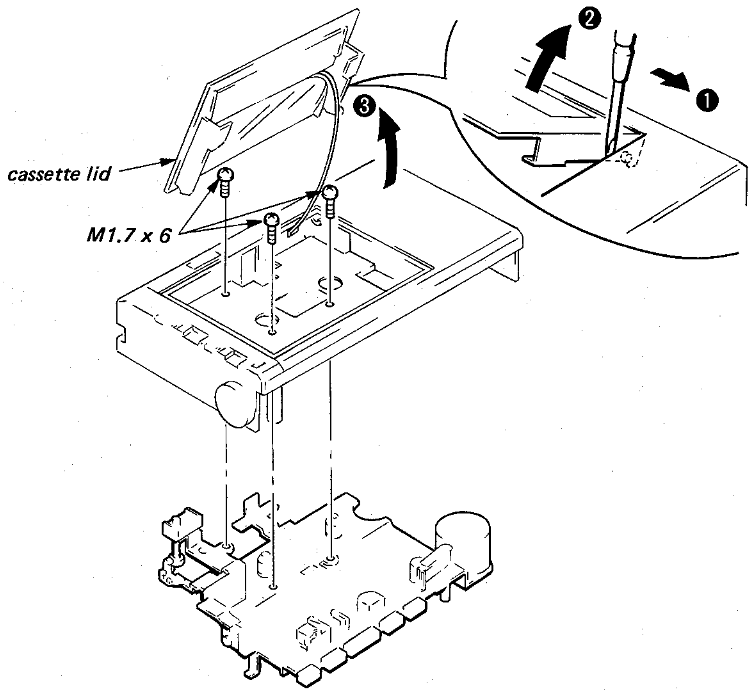
CONTROL PANEL


❶ (B) (1.4 x 5), TAPPING
Be careful not to lose
the function knob.
❸ control panel
❷ MIC901

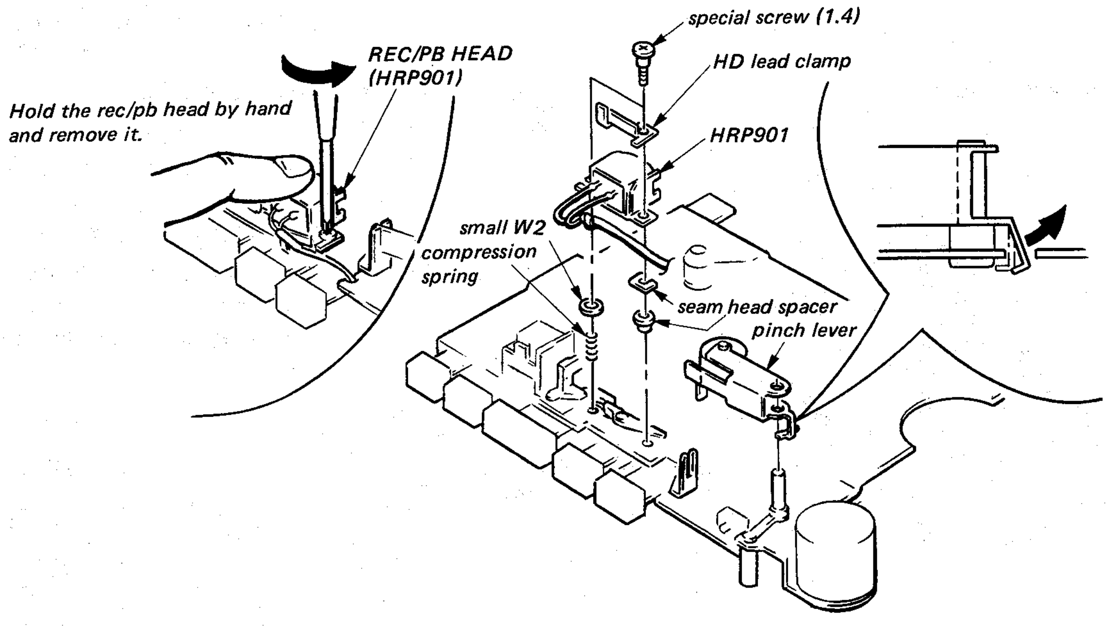
ANT1 (FERRITE-ROD ANTENNA)

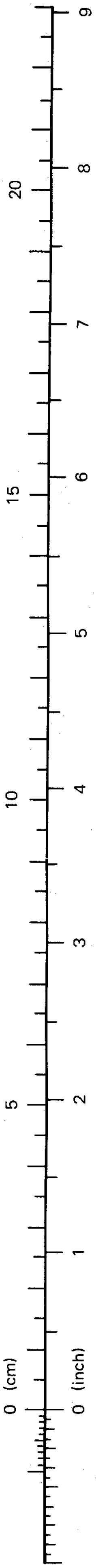

❶ Move the bar-antenna holder in
the direction of arrow to remove
it from the PC board.
❷

CASSETTE LID/MECHANISM SECTION


❷
❶
❸
cassette lid
M1.7 x 6

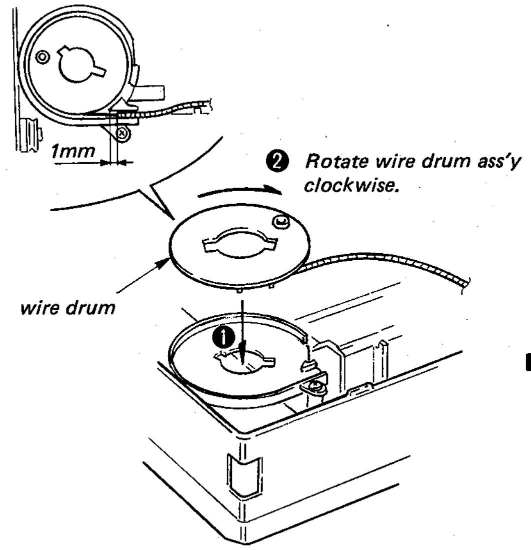
REC/PB HEAD (HRP901)/PINCH LEVER


REC/PB HEAD
(HRP901)
Hold the rec/pb head by hand
and remove it.
special screw (1.4)
HD lead clamp
HRP901
small W2
compression
spring
seam head spacer
pinch lever


0 (cm)
5
10
15
20
0 (inch)
1
2
3
4
5
6
7
8
9

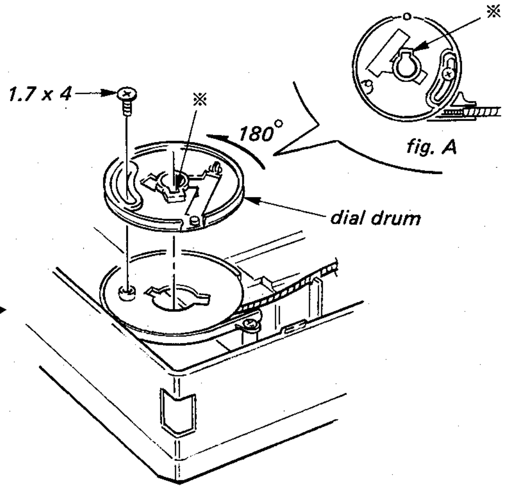
2-2. DIAL CORD STRINGING

- **Wire drum installation**

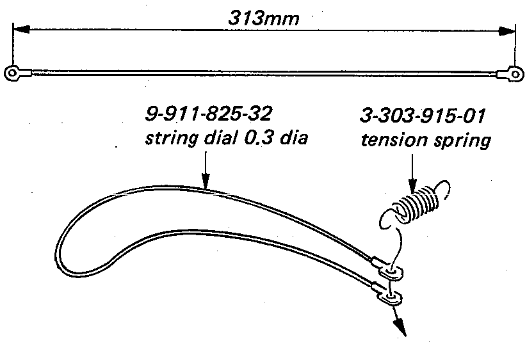

1mm
❷ Rotate wire drum ass'y clockwise.
wire drum
❶

- **Dial drum installation**

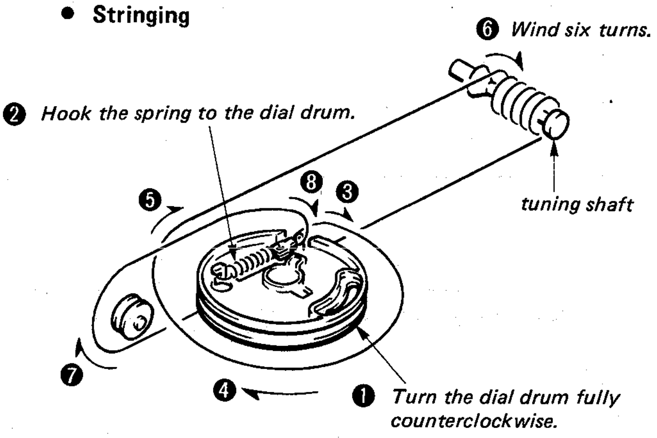
Rotate dial drum counterclockwise in a 180-degree arc., and set the point marked ※ as fig. A.


※
1.7 x 4
※
180°
fig. A
dial drum

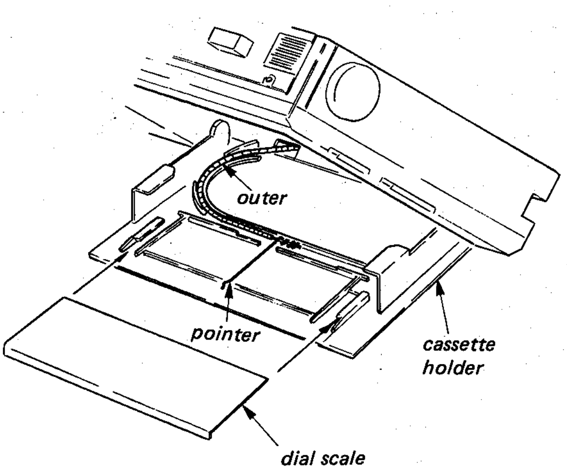
- **Preparation**


313mm
9-911-825-32
string dial 0.3 dia
3-303-915-01
tension spring

- **Stringing**


❻ Wind six turns.
❷ Hook the spring to the dial drum.
tuning shaft
❺
❽
❸
❼
❹
❶ Turn the dial drum fully counterclockwise.

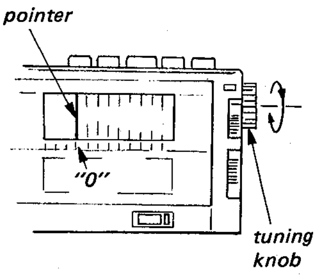
- **Dial scale installation**

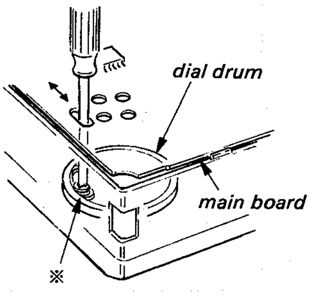

outer
pointer
cassette holder
dial scale

- **Dial pointer installation**

1) Rotate tuning knob fully counterclockwise.
2) Loosen the screw marked ※ and set the point at "0".
3) Tighten the screw marked ※ .

Note: Be careful not to move dial drum when loosening the screw. If the screw moves, rotate tuning knob again and set the pointer to fmin.


pointer
"0"
tuning knob


dial drum
main board
※

SECTION 3
ADJUSTMENTS

3-1 MECHANICAL ADJUSTMENTS

PRECAUTION

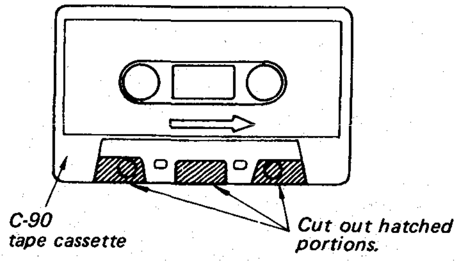
1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

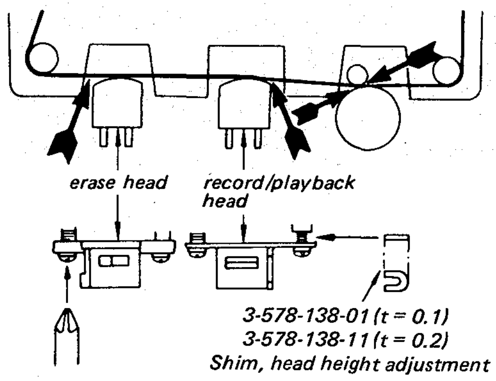
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Head Height Adjustment

1. Prepare an adjustment cassette as shown below.


C-90
tape cassette
Cut out hatched
portions.

2. In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions shown by arrows.

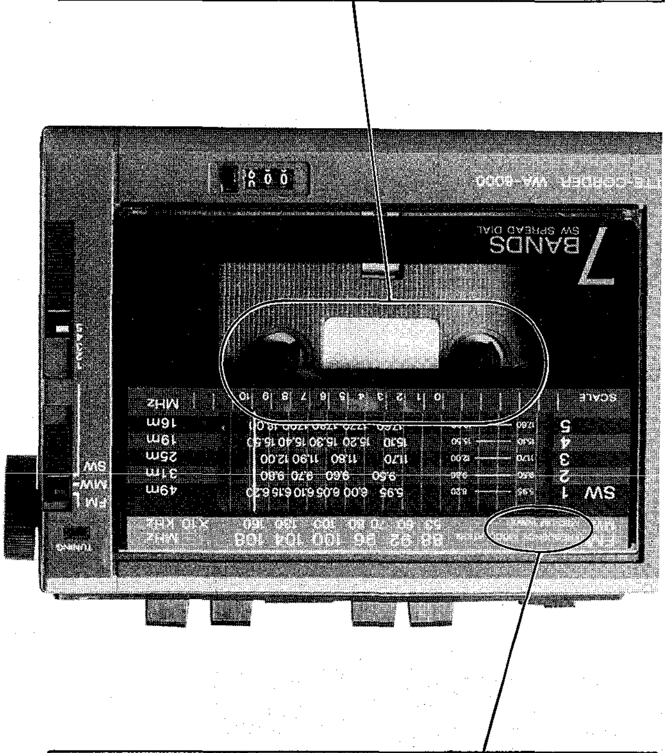

erase head
record/playback
head
3-578-138-01 (t = 0.1)
3-578-138-11 (t = 0.2)
Shim, head height adjustment

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	22 – 40 g-cm (0.3 – 0.56 oz-inch)
Fast Forward and Rewind	CQ201B	67.5 – 95 g-cm (0.95 – 1.33 oz-inch)
Back Tension	CQ-102C	2 – 4 g-cm (0.028 – 0.06 oz-inch)

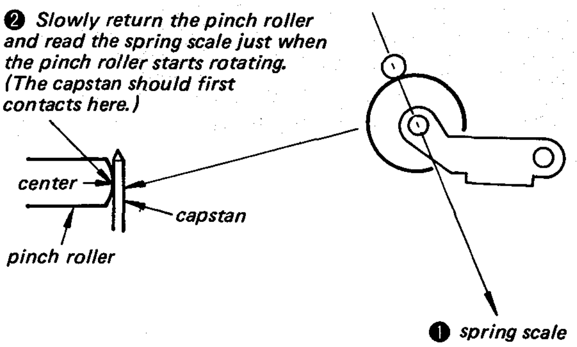
Tape Pulling Strengh Measurement

Meter	Meter reading
CQ-403	more than 120 g



Pinch Roller Pressure Adjustment

– Playback Mode –


center
capstan
pinch roller
❶ spring scale

❷ Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating. (The capstan should first contacts here.)

specification:
25 – 50 g
(0.88 – 1.76 oz)

3-2. ELECTRICAL ADJUSTMENTS

CASSETTE RECORDER SECTION

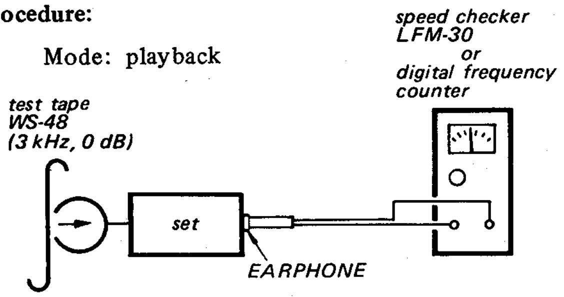
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

Mode: playback

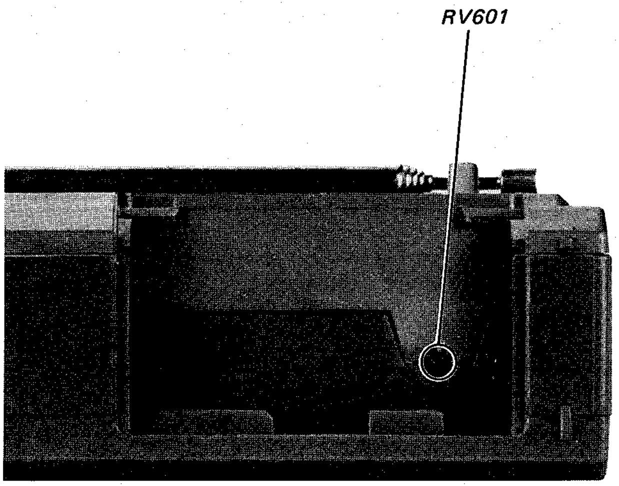

speed checker
LFM-30
or
digital frequency
counter
test tape
WS-48
(3 kHz, 0 dB)
set
EARPHONE

Specification:

Speed checker	Digital frequency counter
–0.3 to +0.3 %	3000 ± 10 Hz

Frequency difference between beginning and end of tape should be within 1.5 % (45 Hz). If necessary, adjust RV601.

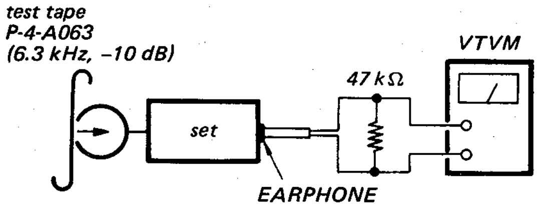
Adjustment Location: Servo board



Record/playback Head Azimuth Adjustment

Procedure:

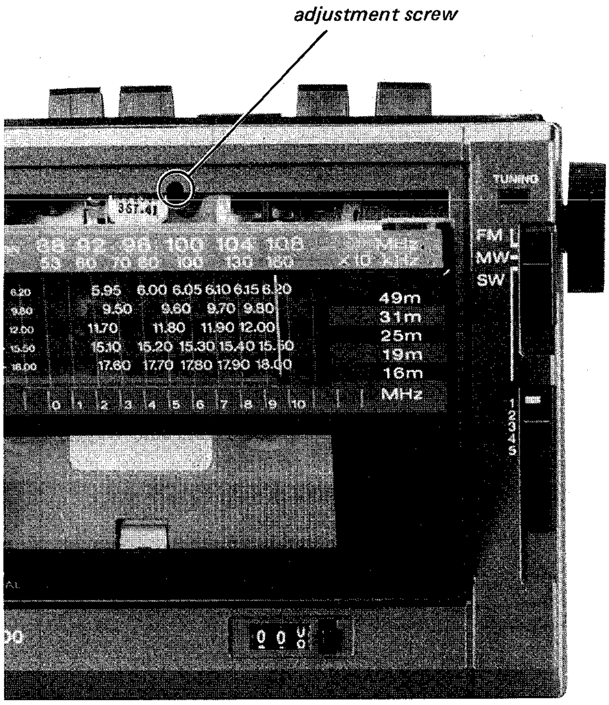
1. Mode: playback


test tape
P-4-A063
(6.3 kHz, –10 dB)
VTVM
47 kΩ
set
EARPHONE

2. Turn the adjustment screw for maximum VTVM reading.

Note: Several peaks may appear, but take the maximum.

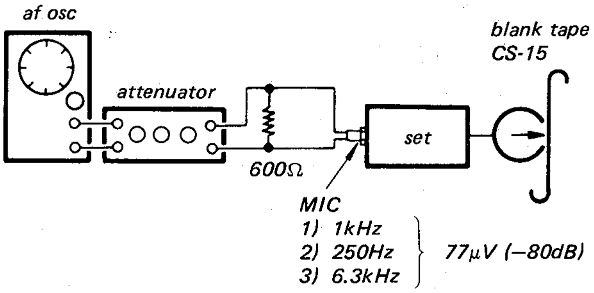
Adjustment Location:


adjustment screw
TUNING
FM
MW
SW
49m
31m
25m
19m
16m
MHz

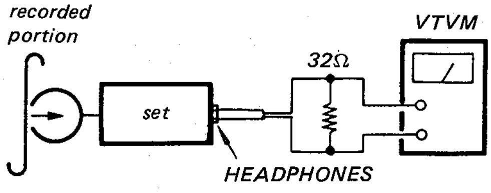
Record Bias Adjustment

Procedure:

1. Mode: record

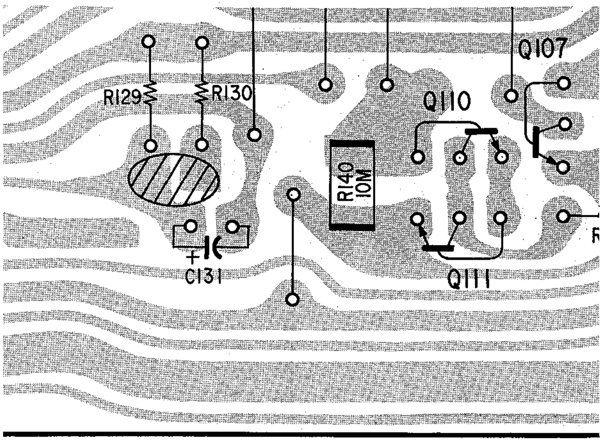

af osc
attenuator
600Ω
set
blank tape
CS-15
MIC
1) 1kHz
2) 250Hz
3) 6.3kHz
77µV (−80dB)

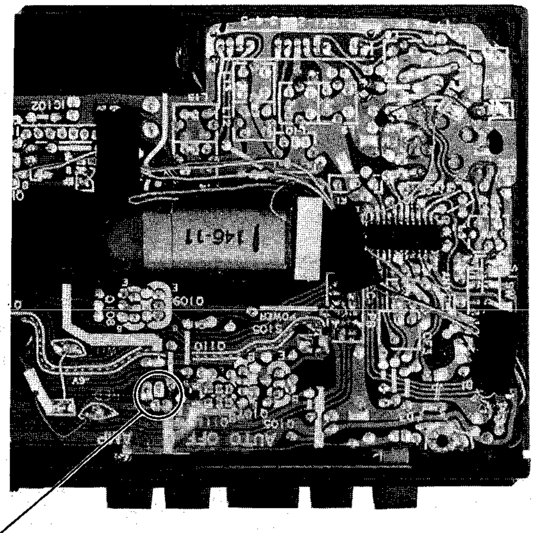
2. Mode: playback


recorded
portion
set
32Ω
VTVM
HEADPHONES

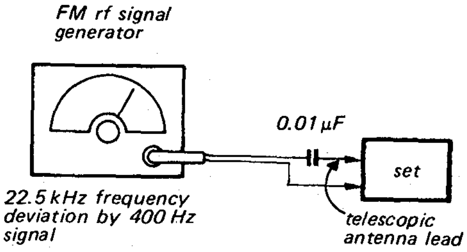
1) Adjust VOLUME control so that 1kHz output level is 250mV (−10dB).
2) Confirm that 250Hz and 6.3kHz output levels are 55mV (−23dB) − 110mV (−17dB).
3) If necessary, connect the pattern and repeat steps 1), 2).

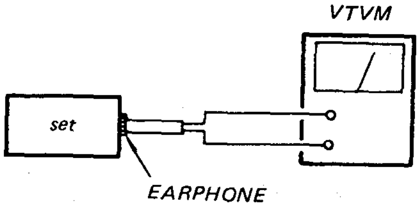
Adjustment Location:


R129
R130
Q107
Q110
R140
10M
C131
Q111



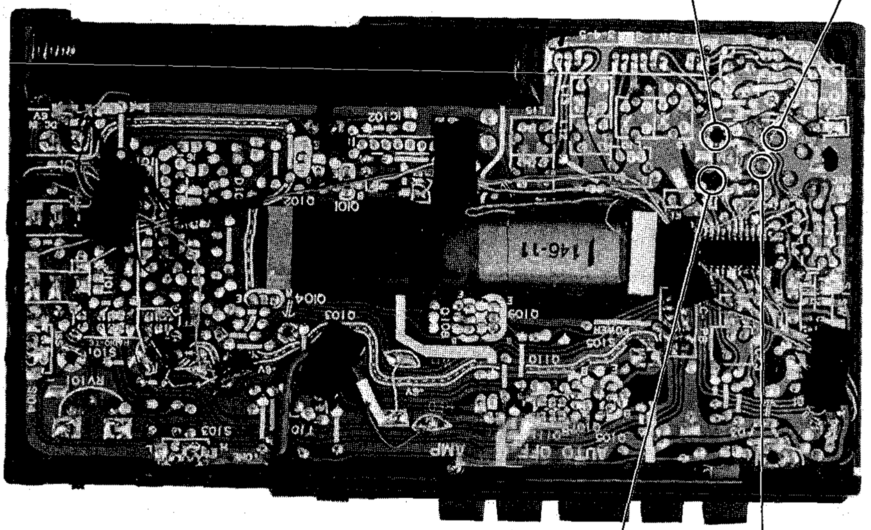
FM SECTION


FM rf signal generator
0.01 µF
set
22.5 kHz frequency deviation by 400 Hz signal
telescopic antenna lead


VTVM
set
EARPHONE

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

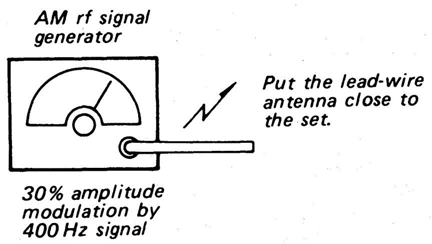
FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
87.2MHz (E, UK model) 87.4MHz (AEP model)	108.6MHz (E, UK model) 108 MHz (AEP model)
L2	CT2



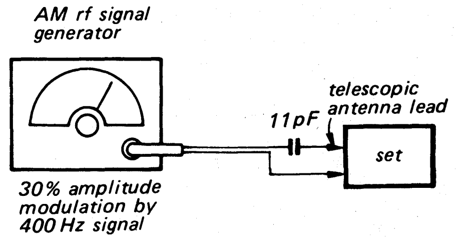
L1	CT1
87.2MHz	108.6MHz
Adjust for a maximum reading on VTVM.	
FM TRACKING ADJUSTMENT	

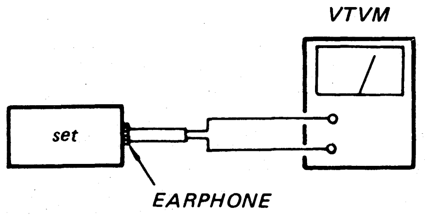
AM SECTION

- MW


AM rf signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400 Hz signal

- SW1−5


AM rf signal generator
telescopic antenna lead
11pF
set
30% amplitude modulation by 400 Hz signal


VTVM
set
EARPHONE

- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

MW TRACKING ADJUSTMENT

Adjust for maximum reading on VTVM.

620 kHz	1,400 kHz
ANT1	CT3

SW1 FREQUENCY COVERAGE ADJUSTMENT

Adjust for a maximum reading on VTVM.

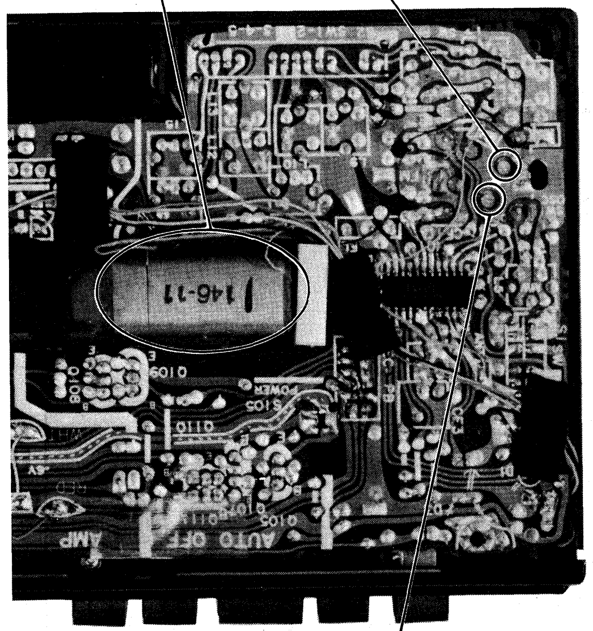
5.9MHz	6.250MHz
L11	CT5

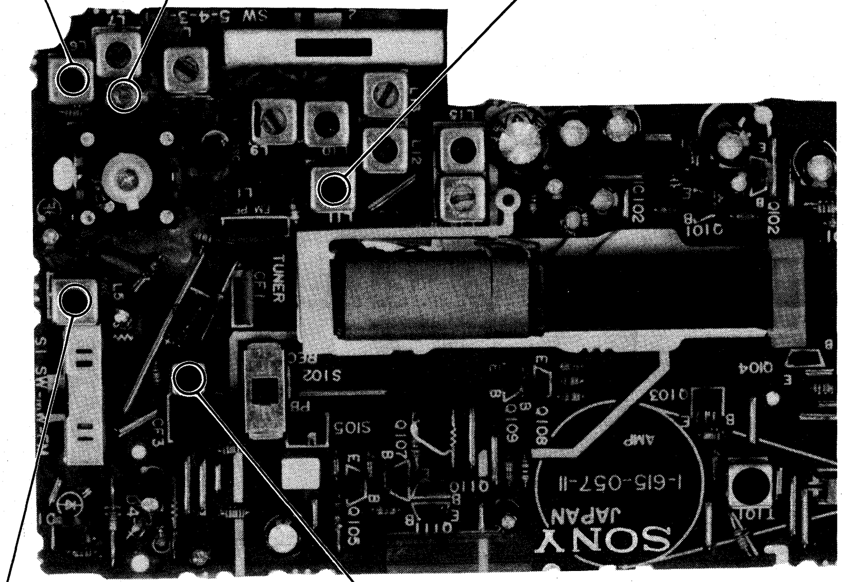
SW1 TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

6.075 MHz

L6




SONY
JAPAN
1-615-057-11

CT4	L5
1,680 kHz	520 kHz

Adjust for a maximum reading on VTVM.

MW FREQUENCY COVERAGE ADJUSTMENT

IFTA1

455kHz (E, AEP model) 468kHz (UK model)

Adjust for a maximum reading on VTVM.

AM IF ALIGNMENT

Note:
Adjust SW2, SW3, SW4 and SW5, after SW1 adjustments are performed.

SW2 TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

9.661MHz

L7

SW2 FREQUENCY COVERAGE ADJUSTMENT

Adjust for a maximum reading on VTVM.

9.661MHz

L12

SW4 TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

15.314MHz	L9

SW5 TRACKING ADJUSTMENT

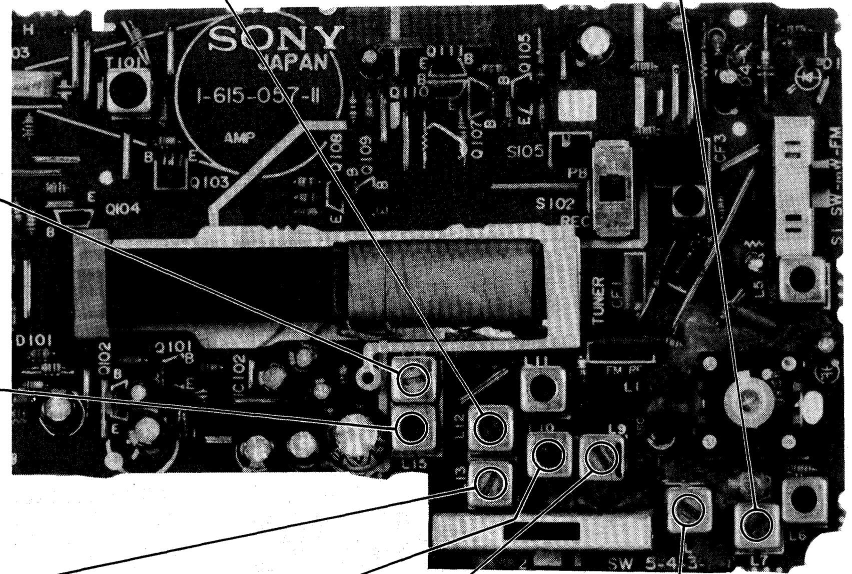
Adjust for a maximum reading on VTVM.

17.819MHz	L10

SW3 TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

11.873MHz	L8


SONY
JAPAN
1-615-057-11

L15

17.819MHz

Adjust for a maximum reading on VTVM.

SW5 FREQUENCY COVERAGE ADJUSTMENT

L14

15.314MHz

Adjust for a maximum reading on VTVM.

SW4 FREQUENCY COVERAGE ADJUSTMENT

L13

11.873MHz

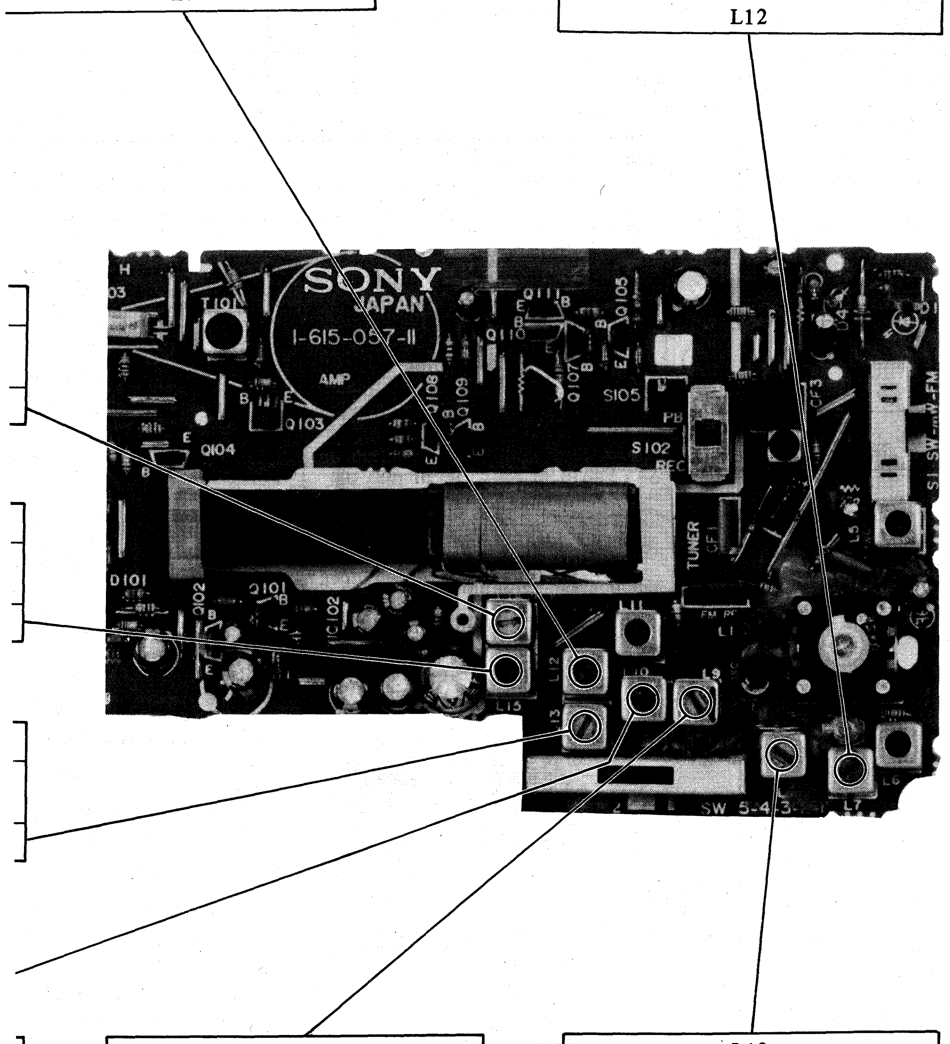
Adjust for a maximum reading on VTVM.

SW3 FREQUENCY COVERAGE ADJUSTMENT

SW1 adjustments are performed.

SW2 TRACKING ADJUSTMENT
Adjust for a maximum reading on VTVM.
9.661MHz
L7

SW2 FREQUENCY COVERAGE ADJUSTMENT
Adjust for a maximum reading on VTVM.
9.661MHz
L12

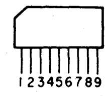

SONY
JAPAN
1-615-057-11
AMP
T101
Q103
Q104
Q105
Q107
Q108
Q109
Q110
Q111
S105
S102
REC
PB
TUNER
CF3
S1 SW FM
D101
Q101
Q102
IC102
L15
L13
L12
L9
L7
L6
SW 5-4-3

L14
15.314MHz
Adjust for a maximum reading on VTVM.
SW4 FREQUENCY COVERAGE ADJUSTMENT

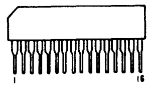
L13
11.873MHz
Adjust for a maximum reading on VTVM.
SW3 FREQUENCY COVERAGE ADJUSTMENT

- **Semiconductor Lead Layouts**

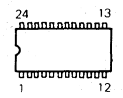
BA526



BA5101



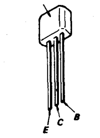
CX20111



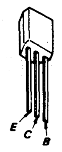
(Top view)

2SB811

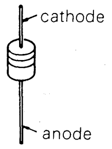
letter side



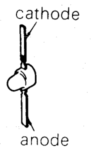
2SC2603-F



1SS119


cathode
anode

SR506D

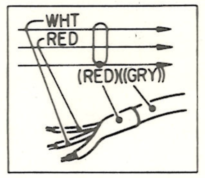

cathode
anode

SECTION 4
ADJUSTMENTS

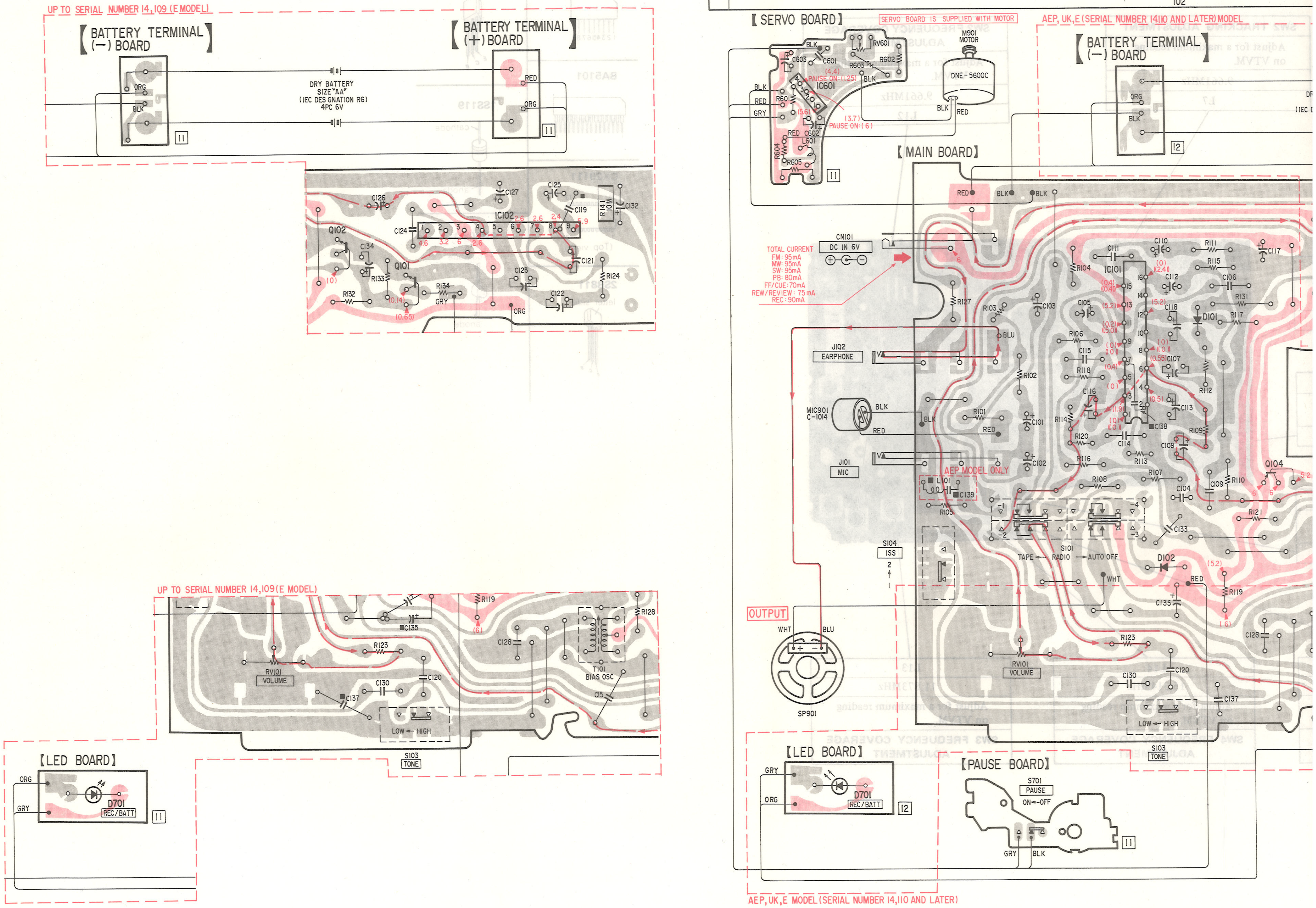
4-1. MOUNTING DIAGRAM (Refer to page 15 for semiconductor lead layouts.)

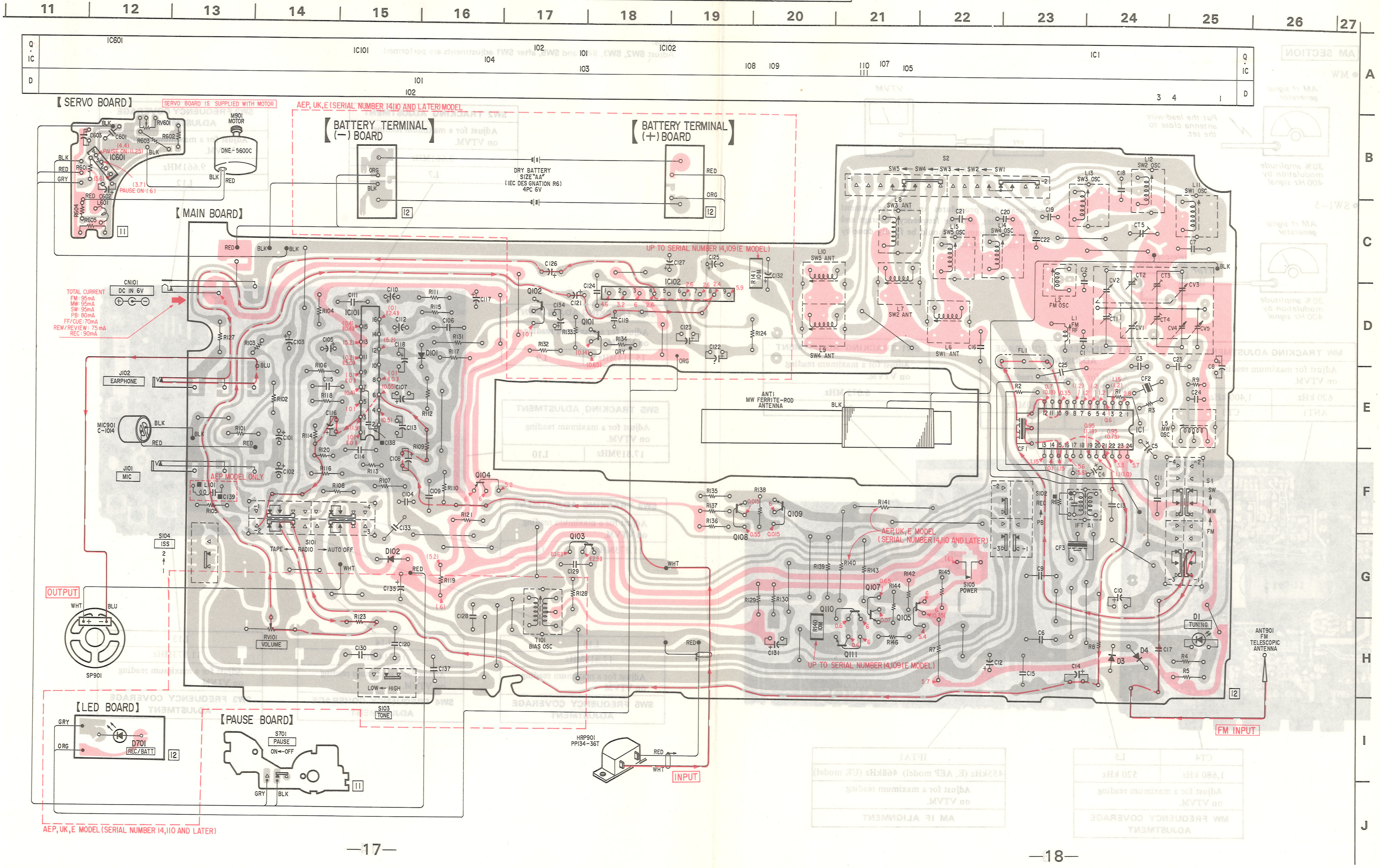
Note:

- Color code of sleeving over the end of the jacket.

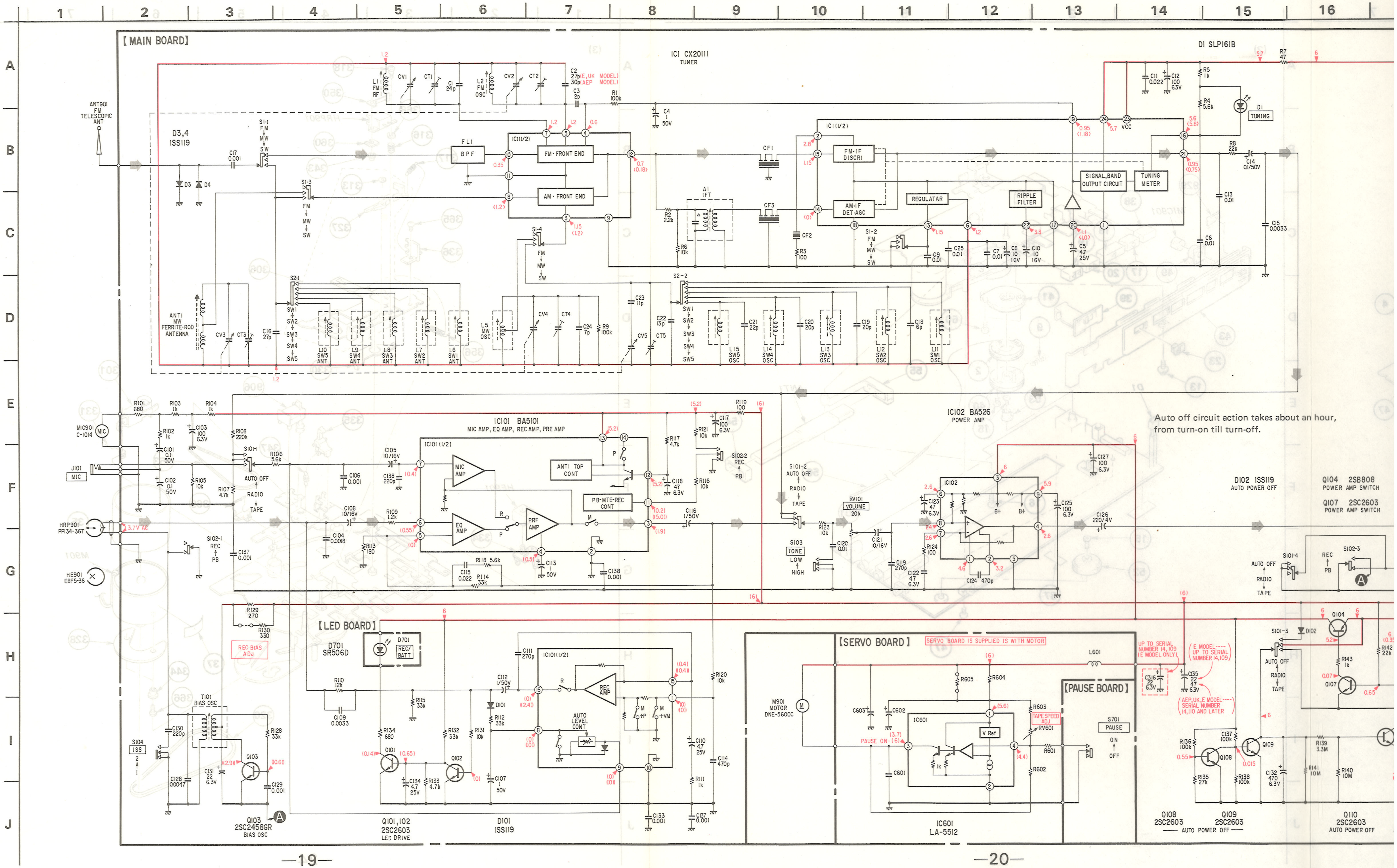

WHT
RED
(RED)(GRY)

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- —→ : signal path
- ▨ : B + pattern

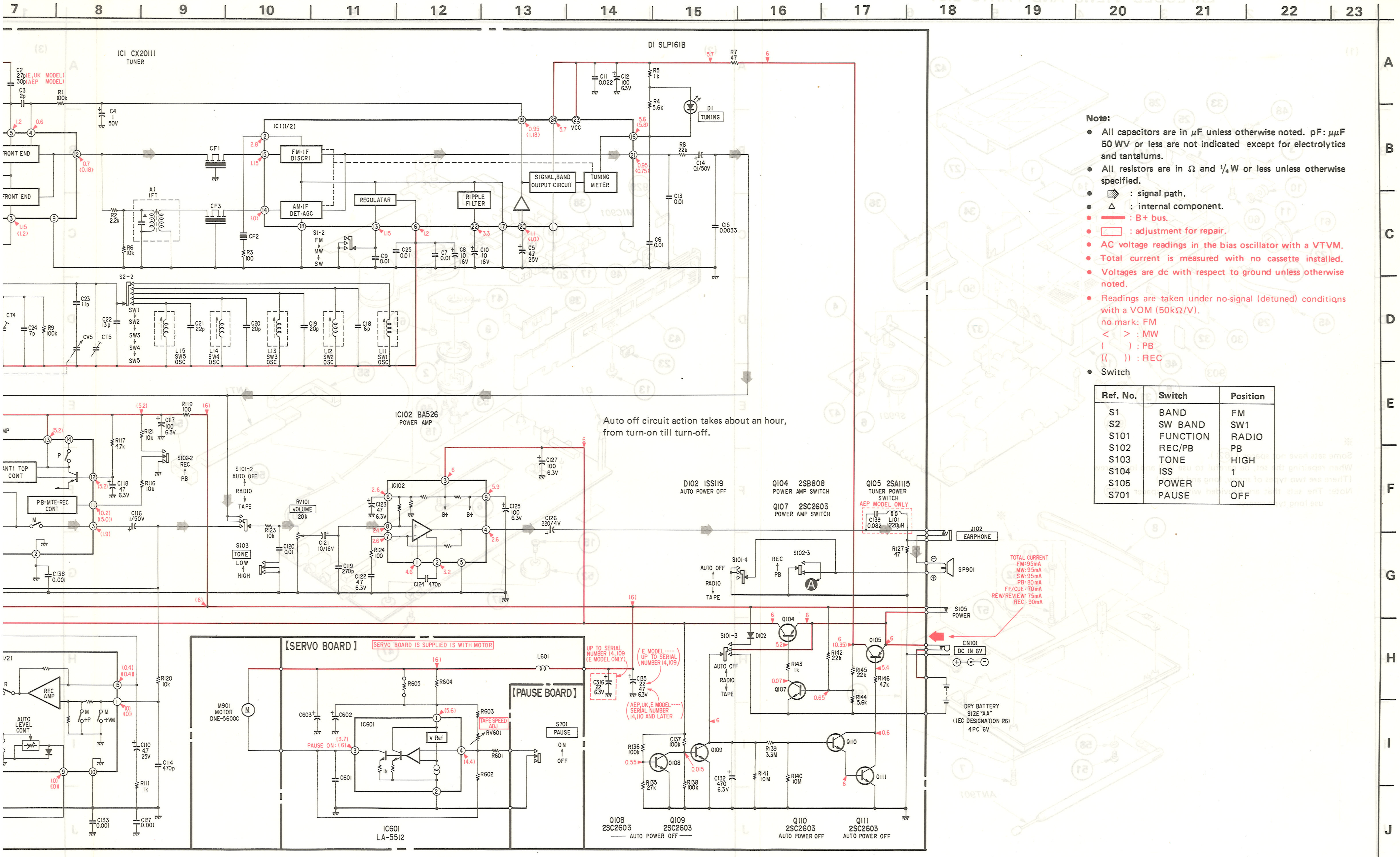

UP TO SERIAL NUMBER 14,109 (E MODEL)
BATTERY TERMINAL (−) BOARD
BATTERY TERMINAL (+) BOARD
DRY BATTERY SIZE "AA" (IEC DESIGNATION R6) 4PC 6V
ORG
BLK
RED
IC102
Q102
Q101
C124
C126
C127
C125
C119
C132
R141 10M
C134
R133
R132
R134
C123
C121
R124
C122
GRY
UP TO SERIAL NUMBER 14,109 (E MODEL)
RV101 VOLUME
R123
C130
C120
C137
C135
C128
R119
R128
T101 BIAS OSC
C15
LOW ← HIGH
S103 TONE
[LED BOARD]
D701 REC/BATT
Q · IC
D
IC601
IC101
104
101
102
[SERVO BOARD]
SERVO BOARD IS SUPPLIED WITH MOTOR
M901 MOTOR
DNE-5600C
RV601
C603
C601
R603
R602
R601
C602
L601
R604
R605
PAUSE ON: (1.25)
PAUSE ON: (6)
AEP, UK, E (SERIAL NUMBER 14,110 AND LATER) MODEL
BATTERY TERMINAL (−) BOARD
[MAIN BOARD]
CN101 DC IN 6V
TOTAL CURRENT FM: 95mA MW: 95mA SW: 95mA PB: 80mA FF/CUE: 70mA REW/REVIEW: 75mA REC: 90mA
J102 EARPHONE
MIC901 C-1014
J101 MIC
AEP MODEL ONLY
L101
C139
R105
S104 ISS
S101 TAPE ← RADIO → AUTO OFF
OUTPUT
WHT
BLU
SP901
R127
R103
BLU
R104
C111
IC101
C110
R111
R115
C117
C112
C106
C103
C105
C118
D101
R131
R117
R106
C115
R118
C107
C116
R102
R101
C101
R114
R120
C114
C138
C113
R109
R112
C108
C102
R116
R113
R107
R108
C104
C109
R110
Q104
R121
C133
D102
R119
C135
R123
C128
RV101 VOLUME
C130
C120
C137
LOW ← HIGH
S103 TONE
[LED BOARD]
D701 REC/BATT
[PAUSE BOARD]
S701 PAUSE ON ↔ OFF
GRY
BLK
AEP, UK, E MODEL (SERIAL NUMBER 14,110 AND LATER)


11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
A
B
C
D
E
F
G
H
I
J
Q·IC
D
IC601
IC101
IC102
IC1
【SERVO BOARD】
SERVO BOARD IS SUPPLIED WITH MOTOR
M901 MOTOR
DNE-5600C
PAUSE ON: (1.25)
PAUSE ON: (6)
AEP, UK, E (SERIAL NUMBER 14,110 AND LATER) MODEL
【BATTERY TERMINAL (−) BOARD】
【BATTERY TERMINAL (+) BOARD】
DRY BATTERY SIZE "AA" (IEC DESIGNATION R6) 4PC 6V
【MAIN BOARD】
UP TO SERIAL NUMBER 14,109 (E MODEL)
TOTAL CURRENT
FM: 95mA
MW: 95mA
SW: 95mA
PB: 80mA
FF/CUE: 70mA
REW/REVIEW: 75mA
REC: 90mA
CN101 DC IN 6V
J102 EARPHONE
MIC901 C-1014
J101 MIC
AEP MODEL ONLY
S104 ISS
S101
TAPE
RADIO
AUTO OFF
OUTPUT
SP901
RV101 VOLUME
T101 BIAS OSC
S103 TONE
LOW
HIGH
ANTI MW FERRITE-ROD ANTENNA
AEP, UK, E MODEL (SERIAL NUMBER 14,110 AND LATER)
S105 POWER
UP TO SERIAL NUMBER 14,109 (E MODEL)
HRP901 PP134-36T
INPUT
【LED BOARD】
D701 REC/BATT
【PAUSE BOARD】
S701 PAUSE ON↔OFF
AEP, UK, E MODEL (SERIAL NUMBER 14,110 AND LATER)
S2
SW5
SW4
SW3
SW2
SW1
L8 SW3 ANT
L15 SW5 OSC
L14 SW4 OSC
L13 SW3 OSC
L12 SW2 OSC
L11 SW1 OSC
L10 SW5 ANT
L7 SW2 ANT
L9 SW4 ANT
L6 SW1 ANT
L2 FM OSC
L1 FM RF
L5 MW OSC
IFT A1
S1
SW
MW
FM
D1 TUNING
ANT901 FM TELESCOPIC ANTENNA
FM INPUT
BLK
RED
GRY
ORG
WHT
BLU

4-2. SCHEMATIC DIAGRAM


Auto off circuit action takes about an hour, from turn-on till turn-off.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
[MAIN BOARD]
IC1 CX20111 TUNER
D1 SLP161B
ANT901 FM TELESCOPIC ANT
D3,4 ISS119
FLI BPF
FM·FRONT END
AM·FRONT END
IC1(1/2)
CF1
CF2
CF3
A1 IFT
FM-IF DISCRI
AM-IF DET·AGC
REGULATAR
RIPPLE FILTER
SIGNAL,BAND OUTPUT CIRCUIT
TUNING METER
D1 TUNING
ANTI MW FERRITE-ROD ANTENNA
S1-1 FM MW SW
S1-2 FM MW SW
S1-3
S1-4
S2-1
S2-2
L10 SW5 ANT
L9 SW4 ANT
L8 SW3 ANT
L7 SW2 ANT
L6 SW1 ANT
L5 MW OSC
L15 SW5 OSC
L14 SW4 OSC
L13 SW3 OSC
L12 SW2 OSC
L11 SW1 OSC
C2 27p (E, UK MODEL) 30p (AEP MODEL)
IC101 BA5101 MIC AMP, EQ AMP, REC AMP, PRE AMP
MIC901 C-1014
J101 MIC
HRP901 PP134-36T
HE901 EBF5-36
MIC AMP
EQ AMP
PRE AMP
ANTI TOP CONT
PB·MTE·REC CONT
S101-1 AUTO OFF RADIO TAPE
S102-1 REC PB
S102-2 REC PB
S101-2 AUTO OFF RADIO TAPE
IC102 BA526 POWER AMP
RV101 VOLUME 20k
S103 TONE LOW HIGH
D102 ISS119 AUTO POWER OFF
Q104 2SB808 POWER AMP SWITCH
Q107 2SC2603 POWER AMP SWITCH
S101-4 AUTO OFF RADIO TAPE
S102-3 REC PB
[LED BOARD]
D701 SR506D
D701 REC/BATT
REC BIAS ADJ
T101 BIAS OSC
S104 ISS
Q103 2SC2458GR BIAS OSC
IC101(1/2)
REC AMP
AUTO LEVEL CONT
Q101,102 2SC2603 LED DRIVE
D101 ISS119
[SERVO BOARD]
SERVO BOARD IS SUPPLIED WITH MOTOR
M901 MOTOR DNE-5600C
IC601
V Ref
TAPE SPEED ADJ
RV601
PAUSE ON : (6)
IC601 LA-5512
[PAUSE BOARD]
S701 PAUSE ON OFF
L601
UP TO SERIAL NUMBER 14,109 (E MODEL ONLY)
(E MODEL----- UP TO SERIAL NUMBER 14,109)
(AEP,UK,E MODEL----- SERIAL NUMBER 14,110 AND LATER)
S101-3 AUTO OFF RADIO TAPE
Q108 2SC2603
Q109 2SC2603 AUTO POWER OFF
Q110 2SC2603 AUTO POWER OFF


7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
A
B
C
D
E
F
G
H
I
J
IC1 CX20111
TUNER
D1 SLP161B
TUNING
IC1(1/2)
FM-IF DISCRI
AM-IF DET-AGC
REGULATAR
RIPPLE FILTER
SIGNAL,BAND OUTPUT CIRCUIT
TUNING METER
VCC
FRONT END
IFT
CF1
CF2
CF3
S1-2
FM
MW
SW
S2-2
SW1
SW2
SW3
SW4
SW5
L15 SW5 OSC
L14 SW4 OSC
L13 SW3 OSC
L12 SW2 OSC
L11 SW1 OSC
IC102 BA526
POWER AMP
ANTI TOP CONT
PB-MTE-REC CONT
S101-2 AUTO OFF
RADIO
TAPE
S102-2 REC
PB
RV101 VOLUME 20k
S103 TONE
LOW
HIGH
D102 1SS119
AUTO POWER OFF
Q104 2SB808
POWER AMP SWITCH
Q107 2SC2603
POWER AMP SWITCH
Q105 2SA1115
TUNER POWER SWITCH
AEP MODEL ONLY
J102 EARPHONE
SP901
S101-4
AUTO OFF
S102-3
S105 POWER
CN101 DC IN 6V
DRY BATTERY SIZE "AA" (IEC DESIGNATION R6) 4PC 6V
[SERVO BOARD]
SERVO BOARD IS SUPPLIED IS WITH MOTOR
M901 MOTOR DNE-5600C
IC601 LA-5512
V Ref
TAPE SPEED ADJ
RV601
PAUSE ON
[PAUSE BOARD]
S701 PAUSE
ON
OFF
UP TO SERIAL NUMBER 14,109 (E MODEL ONLY)
E MODEL---- UP TO SERIAL NUMBER 14,109
AEP,UK,E MODEL---- SERIAL NUMBER 14,110 AND LATER
REC AMP
AUTO LEVEL CONT
S101-3
Q108 2SC2603
Q109 2SC2603
AUTO POWER OFF
Q110 2SC2603
AUTO POWER OFF
Q111 2SC2603
AUTO POWER OFF

Auto off circuit action takes about an hour, from turn-on till turn-off.

TOTAL CURRENT
FM: 95mA
MW: 95mA
SW: 95mA
PB: 80mA
FF/CUE: 70mA
REW/REVIEW: 75mA
REC: 90mA

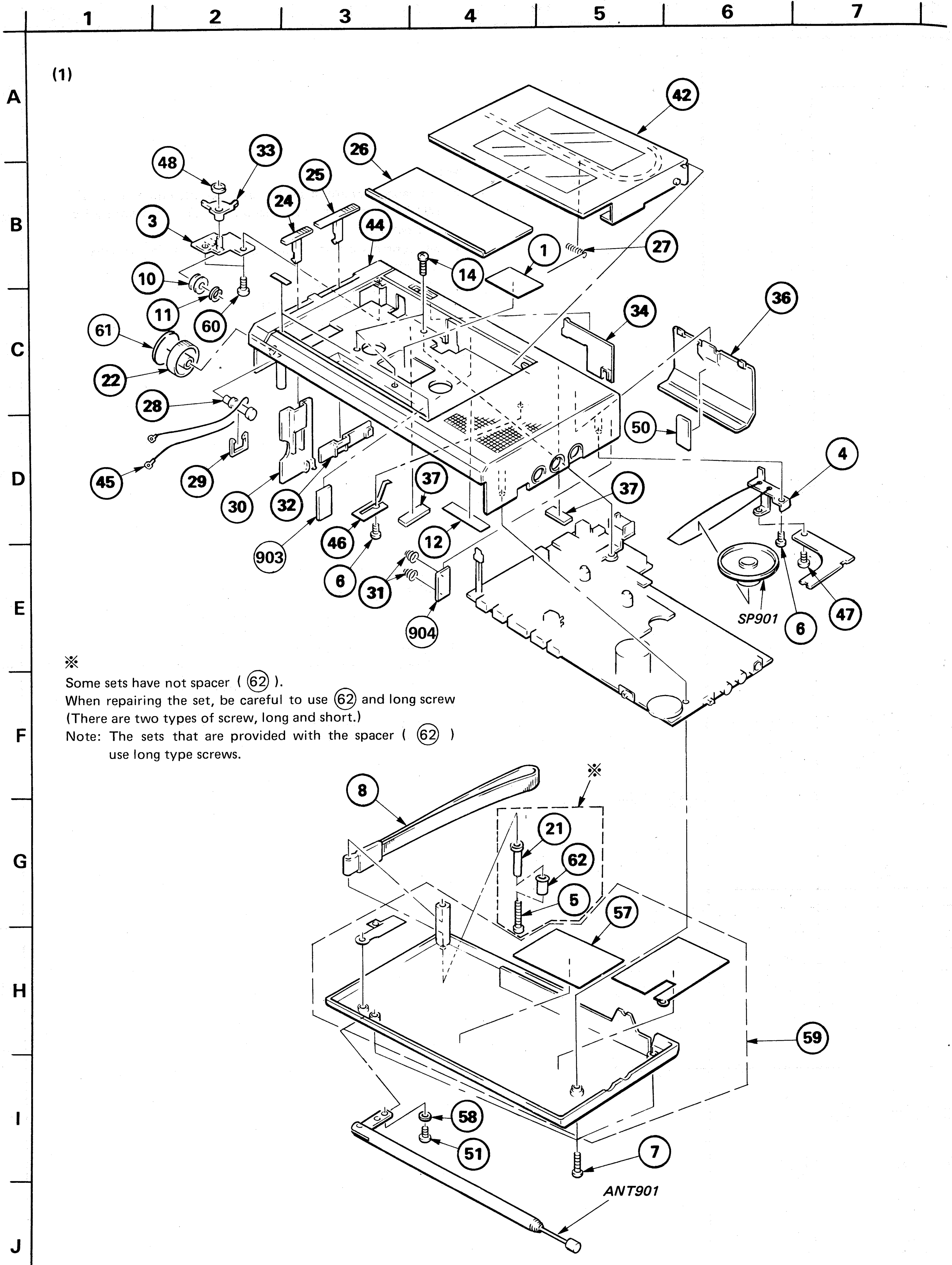
Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ⇨ : signal path.
- △ : internal component.
- ▬ : B+ bus.
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Total current is measured with no cassette installed.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50kΩ/V).
  no mark: FM
  < > : MW
  ( ) : PB
  (( )) : REC
- Switch

Ref. No.	Switch	Position
S1	BAND	FM
S2	SW BAND	SW1
S101	FUNCTION	RADIO
S102	REC/PB	PB
S103	TONE	HIGH
S104	ISS	1
S105	POWER	ON
S701	PAUSE	OFF

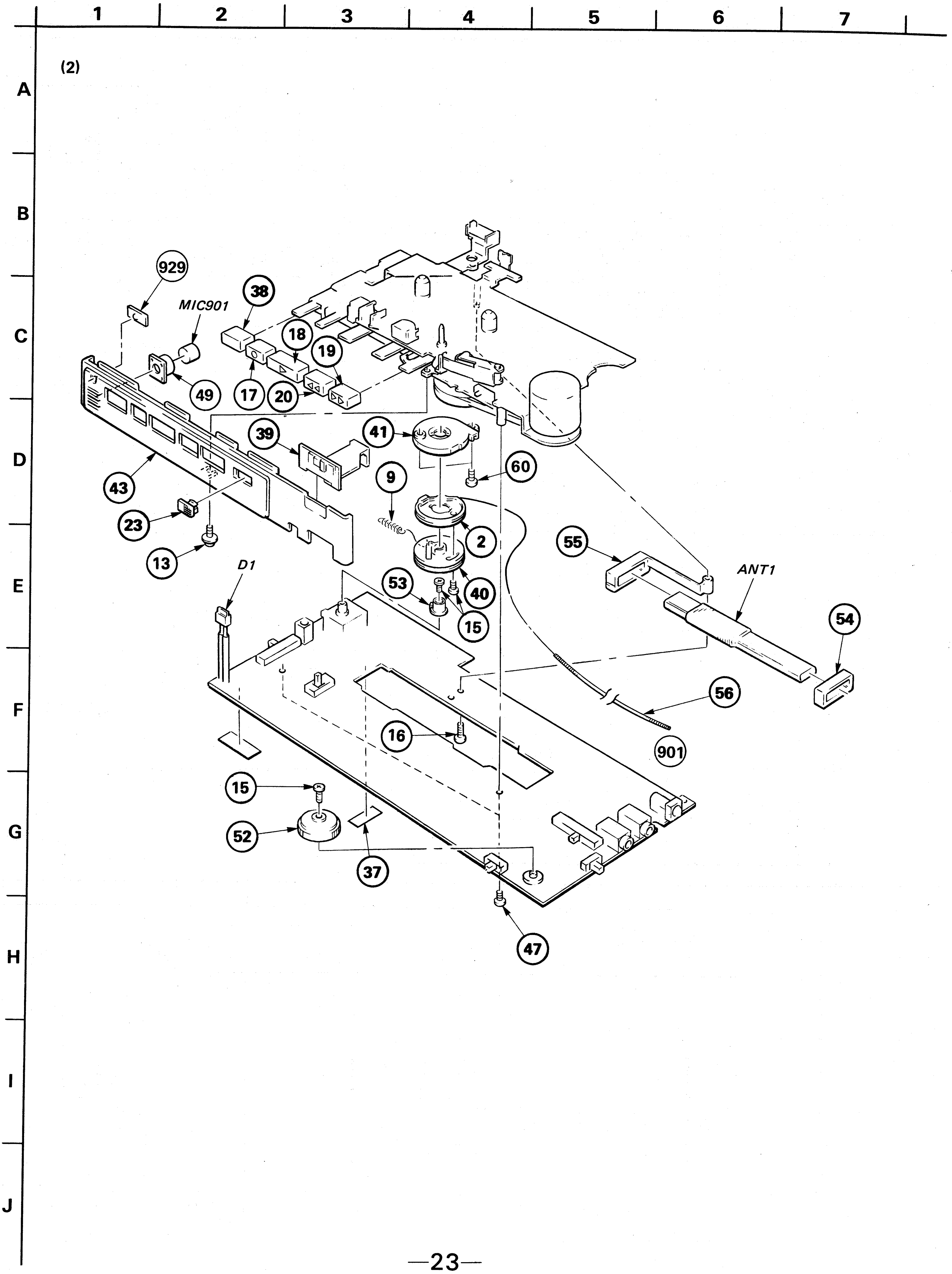
SECTION 5
EXPLODED VIEWS AND PARTS LIST

(1)


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
42
48
33
26
25
24
3
44
1
27
14
10
11
60
61
22
28
34
36
50
45
29
30
32
37
37
4
903
46
12
6
31
904
SP901
6
47
8
※
21
62
5
57
59
58
51
7
ANT901

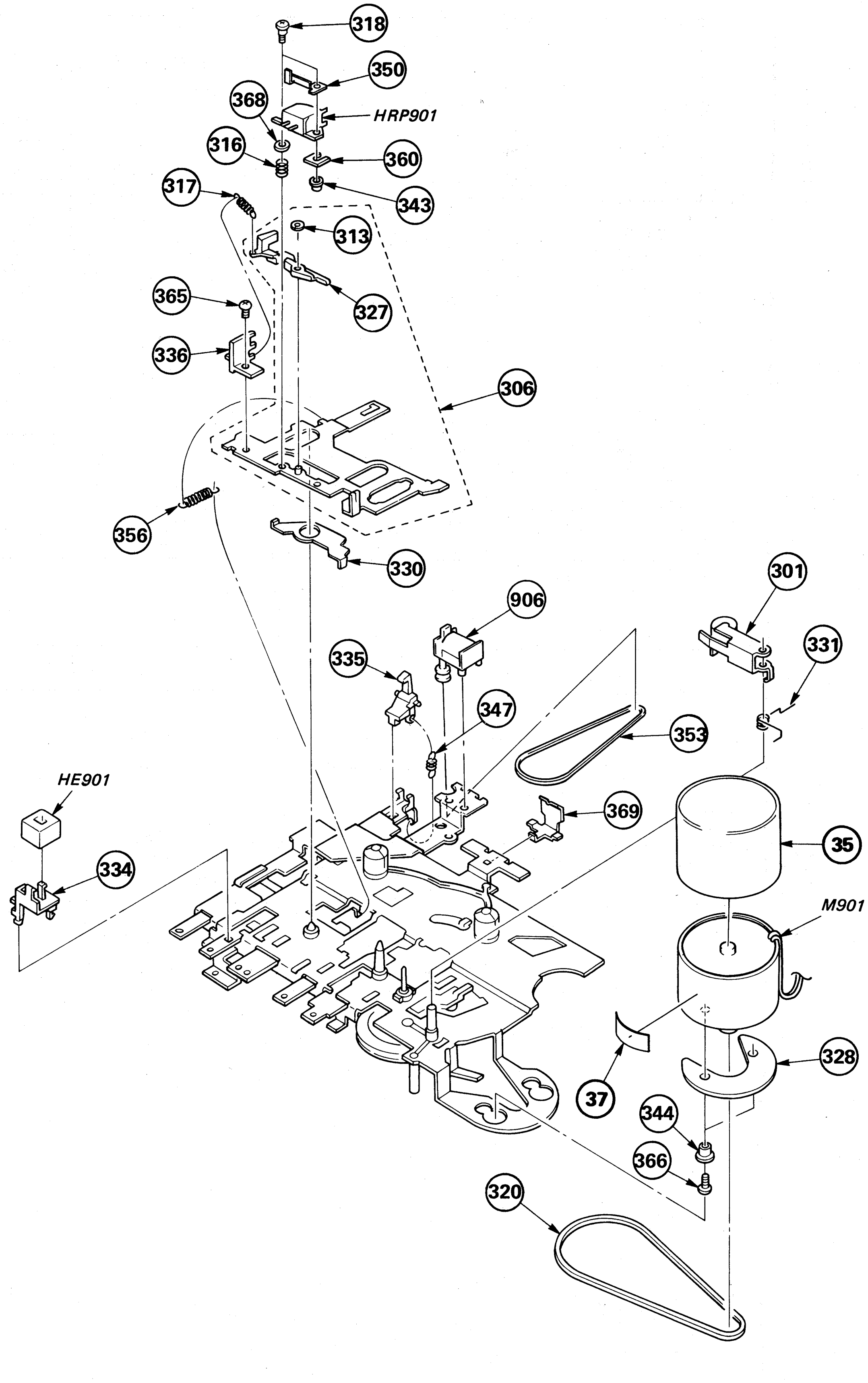
※
Some sets have not spacer ((62)).
When repairing the set, be careful to use (62) and long screw
(There are two types of screw, long and short.)
Note: The sets that are provided with the spacer ((62)) use long type screws.

(2)


A
B
C
D
E
F
G
H
I
J
MIC901
ANT1
D1

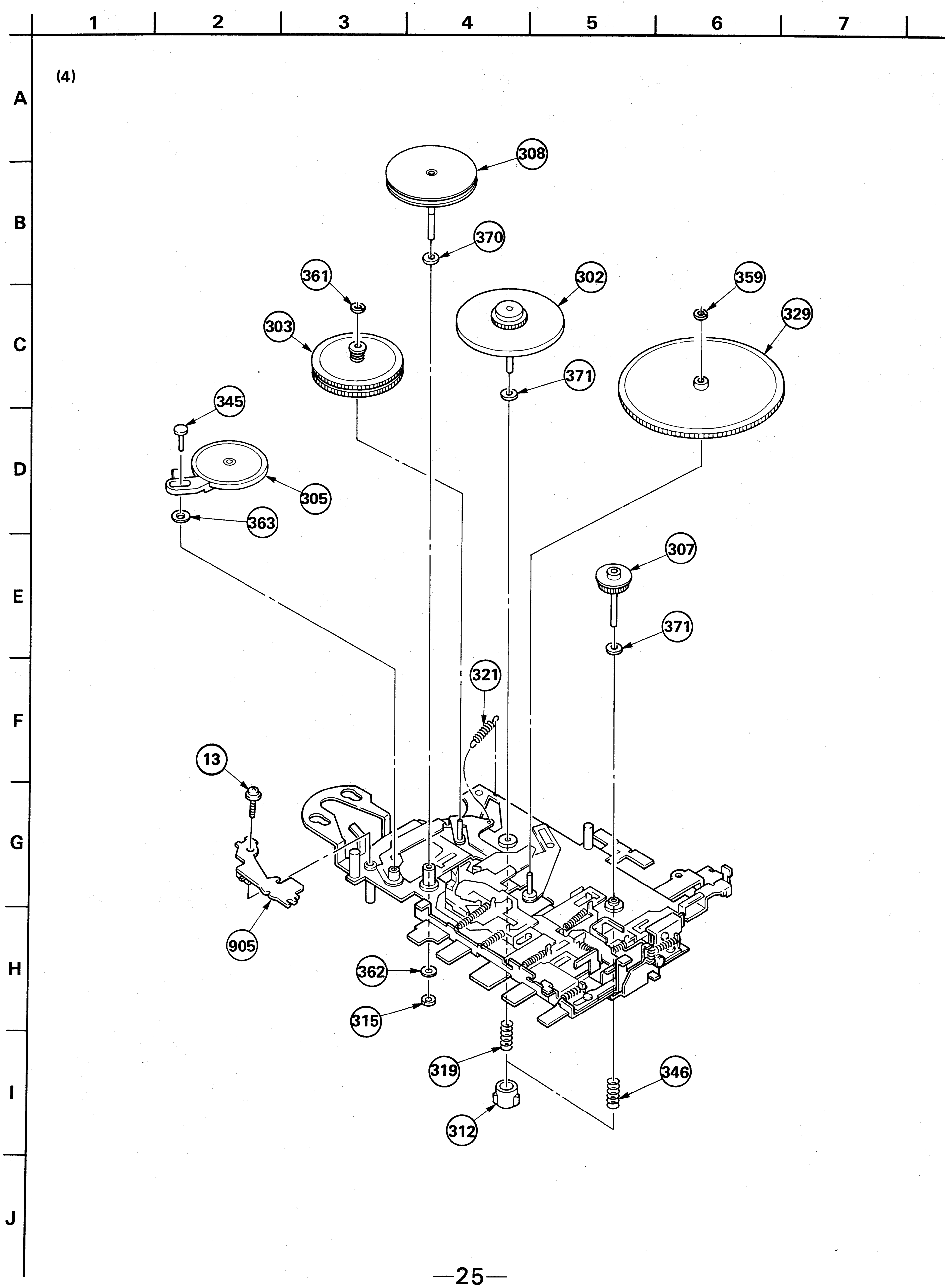
1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J

(3)



HRP901
HE901
M901

(4)


A
B
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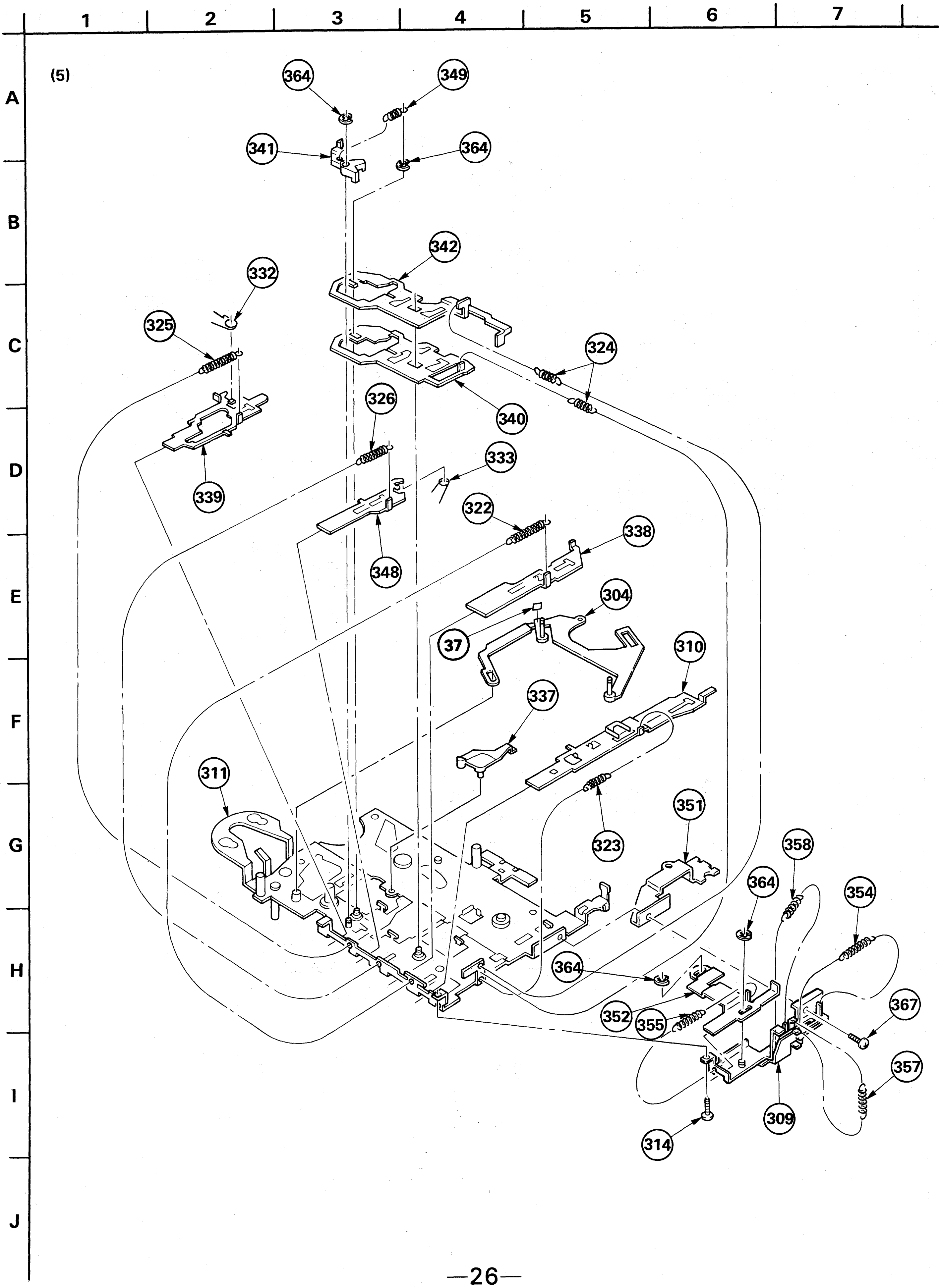
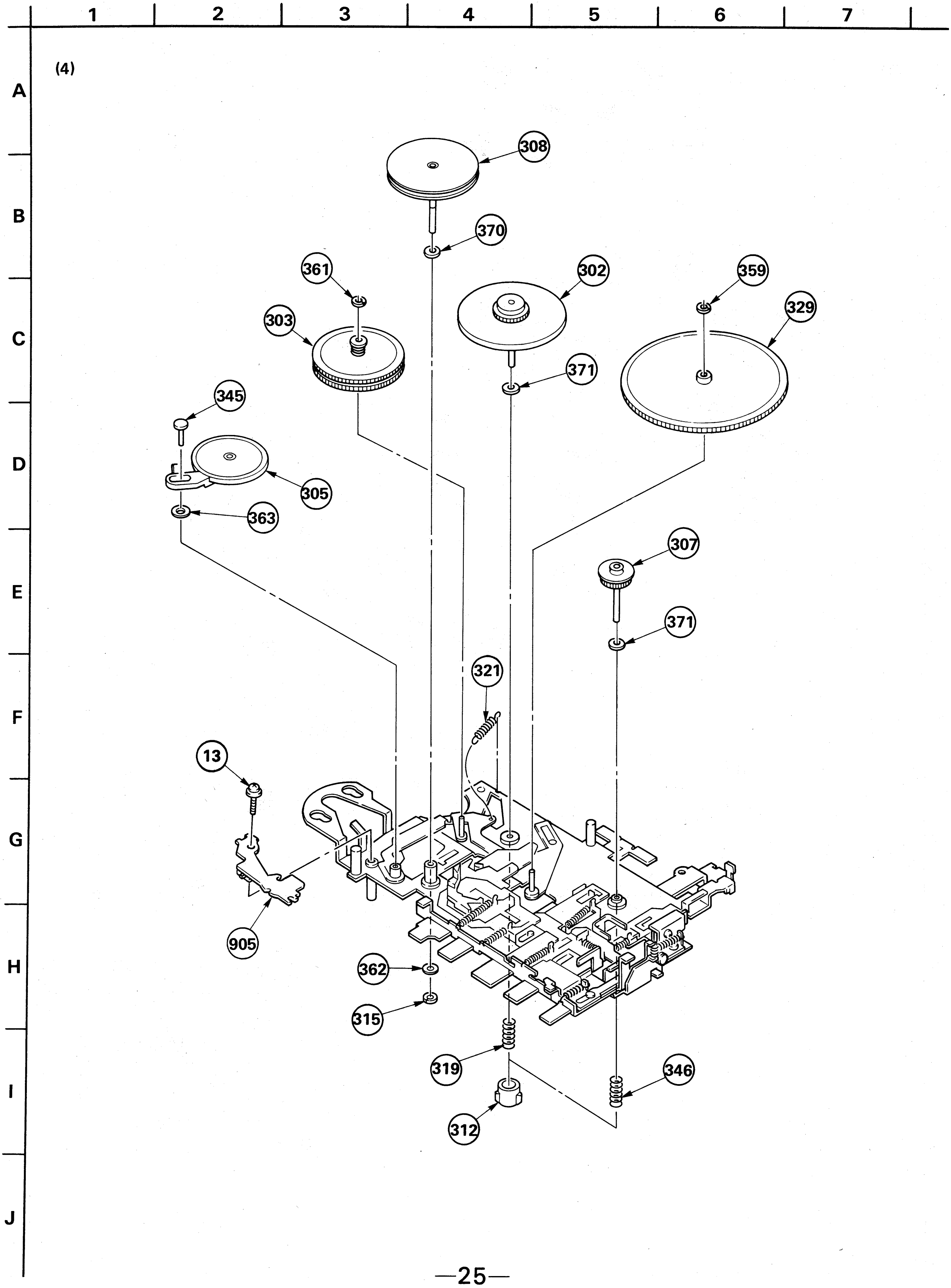
F
G
H
I
J

(5)


A
B
C
D
E
F
G
H
I
J

(4)


A
B
C
D
E
F
G
H
I
J

NOTE:

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC,
UPD...: μPD...

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

GENERAL SECTION

No.	Part No.	Description
1	3-556-221-00	PLATE, ORNAMENTAL
2	X-3325-409-1	DRUM ASSY, WIRE
3	*X-3325-401-1	BRACKET ASSY, LEVER
4	X-3325-407-1	RETAINER ASSY, SPEAKER
5	3-316-022-02	(SILVER)...SCREW (+P 2X30)
5	3-316-022-11	(BLACK)....SCREW (+P2X30)
6	7-685-104-24	SCREW +P 2X6 TYPE2 SLIT
7	7-685-136-24	(SILVER)...SCREW +P 2.6X12 TYPE2 SLIT
7	7-685-136-29	(BLACK)....SCREW +P 2.6X12 TYPE2 SLIT
8	3-303-110-00	STRAP, HAND
9	3-303-915-00	SPRING, TENSION
10	3-304-108-00	PULLEY
11	3-307-948-01	WASHER, NYLON
12	*3-311-848-00	CONDUCTOR, GROUND
13	3-318-201-21	SCREW (B)(1.4X5), TAPPING
14	3-318-204-21	(SILVER)...SCREW (M1.7X6), TAPPING
14	3-318-204-31	(BLACK)....SCREW (M1.7X6), TAPPING
15	3-888-156-00	SCREW (1.7X4)
16	3-318-203-51	SCREW (M1.7X12), TAPPING
17	3-318-221-01	BUTTON, REC
18	3-318-222-01	BUTTON, PLAY
19	3-318-223-01	BUTTON, FF
20	3-318-228-01	BUTTON, REW
21	3-325-465-01	SPACER, STRAP
22	3-325-401-01	KNOB, TUNING
23	3-325-465-01	KNOB, PAUSE
24	3-325-403-01	(SILVER)...KNOB, SELECTION, BAND
24	3-325-403-11	(BLACK)....KNOB, SELECTION, BAND
25	3-325-404-01	(SILVER)...KNOB, SELECTION
25	3-325-404-11	(BLACK)....KNOB, SELECTION
26	3-325-405-01	SCALE, DIAL
27	3-325-406-01	POINTER
28	3-325-407-01	SHAFT, TUNING
29	3-325-408-01	RETAINER, SHAFT
30	3-325-411-01	PLATE, SELECTION, BAND
31	3-325-414-01	SPRING
32	3-325-416-01	LEVER, KNOB
33	3-325-417-01	LEVER, SELECTION
34	3-325-419-01	LEVER, SWITCH
35	*3-325-423-01	CASE, SHIELD, MOTOR
36	3-325-424-01	(SILVER)...LID, BATTERY CASE
36	3-325-424-11	(BLACK)....LID, BATTERY CASE
37	3-831-441-XX	CUSHION
38	3-325-425-01	BUTTON, STOP
39	3-325-426-01	KNOB, FUNCTION
40	3-325-427-01	DRUM, DIAL
41	3-325-429-01	HOLDER, DRUM
42	3-325-431-01	HOLDER, CASSETTE (E, UK MODEL)
42	3-325-431-11	HOLDER, CASSETTE (AEP MODEL)
43	3-325-432-01	PANEL, CONTROL
44	3-325-433-01	(SILVER)... CABINET (FRONT)
44	*3-325-433-11	(BLACK).... CABINET (FRONT)
45	9-911-825-32	STRING, DIAL 0.3DIA
46	*3-325-435-01	SPRING
47	7-621-255-25	SCREW +P 2X4
48	3-570-615-00	POLY-WASHER (DIA.1.2)
49	3-590-518-00	CUSHION, MICROPHONE
50	9-911-815-01	CUSHION, METER
51	7-682-545-04	(SILVER)...SCREW +B 3X4
51	7-682-545-09	(BLACK)....SCREW +B 3X4
52	3-314-209-11	KNOB, CONTROL
53	3-325-412-01	CAP, TUNING CAPACITOR
54	*3-325-415-01	HOLDER (B), FERRITE-ROD ANTENNA
55	*3-325-430-01	HOLDER (A), FERRITE-ROD ANTENNA
56	3-325-410-21	OUTER
57	*3-325-462-01	SHEET (B), SHIELD
58	3-701-440-01	WASHER (t=0.13)
59	X-3325-410-1	(SILVER) ..CABINET ASSY (REAR) (E,UK MODEL)
59	X-3325-410-2	(BLACK) ...CABINET ASSY (REAR) (E,UK MODEL)
59	X-3325-410-5	(BLACK)....CABINET ASSY (REAR) (AEP MODEL)
59	X-3325-410-6	(SILVER)...CABINET ASSY (REAR) (AEP MODEL)
60	3-318-203-11	SCREW (1.7X6)
61	3-883-414-00	ORNAMENTAL PLATE
62	3-325-464-01	SPACER

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-325-453-01	SPACER
3-325-454-01	CUSHION
3-325-455-01	INDIVIDUAL CARTON
3-325-459-01	BAG, PROTECTION
3-527-213-00	LABEL, SERIAL NUMBER
3-701-625-00	BAG, POLYETHYLENE
3-703-895-01	(BLACK)....LABEL, COLOR
3-703-906-01	(SILVER)...LABEL, COLOR
3-703-910-01	(BLACK)....LABEL, COLOR
3-703-921-01	(SILVER)...LABEL, COLOR
3-760-335-01	MANUAL, INSTRUCTION
3-760-335-41	MANUAL, INSTRUCTION (AEP MODEL)
3-703-539-01	INSTRUCTION, FTZ (AEP MODEL)

MECHANISM SECTION

No.	Part No.	Description
301	A-3110-010-A	PINCH LEVER ASSY
302	X-3318-202-1	CLUTCH ASSY
303	X-3318-207-1	GEAR (A) ASSY, FR
304	X-3318-208-1	LEVER ASSY, FR
305	X-3318-210-1	LEVER ASSY, FWD IDLER
306	X-3318-222-1	CHASSIS ASSY, HEAD
307	X-3325-402-1	GEAR ASSY (B), REW
308	X-3325-403-1	FLYWHEEL ASSY
309	X-3325-404-1	LEVER ASSY, EJECT
310	*X-3325-405-1	LEVER ASSY, REC
311	*X-3325-406-1	CHASSIS ASSY, OUTSERT
312	3-306-836-02	CAP, REEL, T
313	3-308-472-21	WASHER (C)
313	3-308-472-31	WASHER (C)
314	3-318-204-61	SCREW (M1.7X5), TAPPING
315	3-318-236-01	WASHER, POLY, SLIT
316	3-318-237-01	SPRING, COMPRESSION
317	3-318-238-01	SPRING, TENSION
318	3-318-240-01	SCREW (1.4), SPECIAL
319	3-318-241-01	SPRING, COMPRESSION
320	3-318-242-01	BELT
321	3-318-243-01	SPRING, TENSION
322	3-318-246-01	SPRING, TENSION
323	3-318-247-01	SPRING, TENSION
324	3-318-248-01	SPRING, TENSION
325	3-318-250-01	SPRING, TENSION
326	3-318-251-01	SPRING, TENSION
327	3-318-252-01	ARM, DETECTION
328	3-318-254-01	CUSHION, MOTOR
329	3-318-265-01	GEAR (B), FR
330	*3-318-267-01	LEVER, CR
331	3-318-275-01	SPRING
332	3-318-276-01	SPRING, FF
333	3-318-277-01	SPRING, REW
334	3-318-285-01	BRACKET, ERASE HEAD
335	3-318-286-01	LEVER, ERASING PROTECTION
336	3-318-287-01	GUIDE, TAPE
337	3-318-288-01	ARM, FF
338	*3-318-290-01	LEVER, PLAY
339	3-318-291-01	LEVER, FF
340	*3-318-294-01	PLATE, LOCK
341	3-318-296-01	LEVER, SHUT-OFF
342	3-318-300-01	LEVER, SWITCH
343	3-318-309-01	SPACER, HEAD
344	*3-318-310-01	COLLAR, MOTOR
345	3-318-324-01	BUSHING, IDLER LEVER
346	3-318-334-01	SPRING, COMPRESSION
347	3-318-336-01	SPRING, TENSION
348	3-318-292-01	LEVER, REW
349	3-318-351-01	SPRING, TENSION
350	3-318-736-01	CLAMP, HD LEAD
351	*3-325-440-01	BRACKET, COUNTER
352	*3-325-451-01	LEVER, STOP
353	3-325-452-01	BELT
354	3-545-588-00	SPRING, TENSION
355	3-547-659-00	SPRING, TENSION
356	3-565-927-00	SPRING, TENSION
357	3-570-552-00	SPRING, TENSION
358	3-570-587-00	SPRING, TENSION
359	3-570-615-00	POLY-WASHER (DIA.1.2)
360	3-578-138-01	SEAM (t=0.1)
360	3-578-138-11	SEAM (t=0.2)
360	3-578-138-21	SEAM (t=0.3)
361	3-578-265-11	WASHER, STOPPER
362	3-701-437-01	WASHER (t=0.13)
363	3-827-323-11	WASHER (DIA. 3.1)
364	7-624-101-01	RING, RETAINING E-1.2
365	7-627-552-07	SCREW, PRECISION +P 1.7X2.5
366	7-627-552-67	SCREW, PRECISION +P 1.7X4.5
367	7-785-851-01	SCREW +BVTT 2X4 (S)
368	7-688-001-01	W 2, SMALL
369	3-325-457-01	SPRING
370	3-701-437-11	WASHER (t=0.25)
371	3-701-437-21	WASHER (t=0.5)
372	3-701-437-41	WASHER

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
901	*A-3215-712-A	MOUNTED PCB, MAIN (E MODEL)				
901	*A-3215-812-A	MOUNTED PCB, MAIN (AEP MODEL)				
901	*A-3215-813-A	MOUNTED PCB, MAIN (UK MODEL)				
902	*1-615-058-11	PC BOARD, LED				
903	1-615-059-11	PC BOARD, BATTERY TERMINAL (+)				
904	1-615-060-11	PC BOARD, BATTERY TERMINAL (-)				
905	*1-615-061-11	PC BOARD, PAUSE				
906	1-548-558-41	TIMER, TAPE				
907	*1-535-149-11	WIRE (30.0MM)				
908	*1-535-303-00	WIRE, JUMPER				
ANT1	1-402-146-11	ANTENNA, FERRITE-ROD (MW)				
ANT901	1-501-280-00	ANTENNA, TELESCOPIC				
C1	1-102-515-00	CERAMIC	24PF	5%	50V	
C2	1-102-806-00	CERAMIC	27PF	5%	50V	(E,UK MODEL)
C2	1-102-962-00	CERAMIC	30PF	5%	50V	(AEP MODEL)
C3	1-102-742-00	CERAMIC	2PF	0.25PF	50V	(E,UK MODEL)
C3	1-102-406-21	CERAMIC	2PF	0.25PF	50V	(AEP MODEL)
C4	1-123-611-00	ELECT	1MF	20%	50V	
C5	1-123-616-00	ELECT	4.7MF	20%	25V	
C6	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C7	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C8	1-123-617-00	ELECT	10MF	20%	16V	
C9	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C10	1-123-617-00	ELECT	10MF	20%	16V	
C11	1-161-017-00	CERAMIC	0.022MF	10%	25V	
C12	1-123-661-00	ELECT	100MF	20%	6.3V	
C13	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C14	1-123-607-00	ELECT	0.1MF	20%	50V	
C15	1-162-303-31	CERAMIC	0.0033MF	20%	16V	
C16	1-162-209-31	CERAMIC	27PF	5%	50V	
C17	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C18	1-101-998-00	CERAMIC	6PF	0.5PF	50V	
C19	1-101-974-00	CERAMIC	20PF	5%	50V	
C20	1-101-974-00	CERAMIC	20PF	5%	50V	
C21	1-102-641-00	CERAMIC	22PF	5%	50V	
C22	1-102-880-00	CERAMIC	15PF	5%	50V	
C23	1-102-748-00	CERAMIC	11PF	5%	50V	
C24	1-102-745-00	CERAMIC	7PF	0.5PF	50V	
C25	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C101	1-123-607-00	ELECT	0.1MF	20%	50V	
C102	1-123-607-00	ELECT	0.1MF	20%	50V	
C103	1-123-661-00	ELECT	100MF	20%	6.3V	
C104	1-161-004-00	CERAMIC	0.0018MF	10%	25V	
C105	1-123-617-00	ELECT	10MF	20%	16V	
C106	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C107	1-123-611-00	ELECT	1MF	20%	50V	
C108	1-123-617-00	ELECT	10MF	20%	16V	
C109	1-162-303-31	CERAMIC	0.0033MF	20%	16V	
C110	1-123-616-00	ELECT	4.7MF	20%	25V	
C111	1-162-287-31	CERAMIC	270PF	10%	50V	
C112	1-123-611-00	ELECT	1MF	20%	50V	
C113	1-123-611-00	ELECT	1MF	20%	50V	
C114	1-162-290-31	CERAMIC	470PF	10%	50V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description				
C115	1-161-017-00	CERAMIC	0.022MF	10%	25V	
C116	1-123-611-00	ELECT	1MF	20%	50V	
C117	1-123-661-00	ELECT	100MF	20%	6.3V	
C118	1-123-647-00	ELECT	47MF	20%	6.3V	
C119	1-162-287-31	CERAMIC	270PF	10%	50V	
C120	1-162-306-31	CERAMIC	0.01MF	20%	16V	
C121	1-123-617-00	ELECT	10MF	20%	16V	
C122	1-123-647-00	ELECT	47MF	20%	6.3V	
C123	1-123-647-00	ELECT	47MF	20%	6.3V	
C124	1-162-290-31	CERAMIC	470PF	10%	50V	
C125	1-123-661-00	ELECT	100MF	20%	6.3V	
C126	1-123-827-00	ELECT	220MF	20%	4V	
C127	1-123-661-00	ELECT	100MF	20%	6.3V	
C128	1-106-188-00	MYLAR	0.0047MF	5%	100V	
C129	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C130	1-162-286-31	CERAMIC	220PF	10%	50V	
C131	1-123-618-00	ELECT	22MF		6.3V	
C132	1-123-298-00	ELECT	470MF	20%	6.3V	
C133	1-161-039-00	CERAMIC	0.001MF	10%	50V	
C134	1-123-616-00	ELECT	4.7MF	20%	25V	
C135	1-123-618-00	ELECT	22MF	20%	6.3V	
		E MODEL...	10,000-14,109			
C136	1-123-618-00	ELECT	22MF	20%	6.3V	
		E MODEL...	10,000-14,109			
C136	1-123-647-00		47MF	20%	6.3V	
C137	1-162-294-31	CERAMIC	0.001MF	10%	50V	
C138	1-162-286-31	CERAMIC	220PF	10%	50V	
C139	1-161-024-00	CERAMIC	0.082	10%	25V	(AEP MODEL)
CF1	1-567-166-00	FILTER, CERAMIC				
CF2	1-567-166-00	FILTER, CERAMIC				
CF3	1-527-290-00	FILTER, CERAMIC (E, AEP MODEL)				
CF3	1-567-124-00	FILTER, CERAMIC (UK MODEL)				
CN101	1-507-563-00	DC JACK				
CT5	1-141-257-00	CAP, TRIMMER				
CV1	1-151-459-21	CAP, TUNING, POLYETHYLENE				
D1	8-719-901-96	DIODE SLP161B (TUNING)				
D3	8-719-911-19	DIODE 1SS119				
D4	8-719-911-19	DIODE 1SS119				
D101	8-719-911-19	DIODE 1SS119				
D102	8-719-911-19	DIODE 1SS119				
D701	8-719-104-37	DIODE SR506D (REC/BATT)				
FL1	1-235-171-00	FILTER, BAND PASS				
HE901	8-658-096-02	HEAD, ERASE EBF5-36				
HRP901	8-829-336-35	HEAD (PP134-36T)				
IC1	8-752-011-11	IC CX20111				
IC101	8-759-915-24	IC BA5101				
IC102	8-759-952-60	IC BA526				
IFTA1	1-404-398-00	TRANSFORMER, IF				

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
J101	1-507-578-00	JACK			
J102	1-507-578-00	JACK			
L1	1-425-350-00	COIL, HIGH FREQUENCY (FM)			
L2	1-459-418-00	COIL (WITH CORE)			
L5	1-406-040-00	COIL (OSC)			
L6	1-402-095-11	COIL, ANT (SW 1)			
L7	1-402-096-11	COIL, ANT (SW 2)			
L8	1-402-097-11	COIL, ANT (SW 3)			
L9	1-402-098-11	COIL, ANT (SW 4)			
L10	1-402-099-11	COIL, ANT (SW 5)			
L11	1-406-137-11	COIL, OSC (SW 1)			
L12	1-406-138-11	COIL, OSC (SW 2)			
L13	1-406-139-11	COIL, OSC (SW 3)			
L14	1-406-140-11	COIL, OSC (SW 4)			
L15	1-406-141-11	COIL, OSC (SW 5)			
L101	1-407-173-XX	MICRO INDUCTOR 220μH (AEP MODEL)			
M901	8-835-137-01	MOTOR, DC (DNE-5600C)			
MIC901	8-814-186-00	MICROPHONE UNIT (C-1014)			
Q101	8-729-606-33	TRANSISTOR 2SC2603-F			
Q102	8-729-606-33	TRANSISTOR 2SC2603-F			
Q103	8-729-606-33	TRANSISTOR 2SC2603-F			
Q104	8-729-181-13	TRANSISTOR 2SB811			
Q105	8-729-204-83	TRANSISTOR 2SA1048GR			
Q107	8-729-606-33	TRANSISTOR 2SC2603-F			
Q108	8-729-606-33	TRANSISTOR 2SC2603-F			
Q109	8-729-606-33	TRANSISTOR 2SC2603-F			
Q110	8-729-606-33	TRANSISTOR 2SC2603-F			
Q111	8-729-606-33	TRANSISTOR 2SC2603-F			
R1	1-247-879-00	CARBON	100K	5%	1/6W
R2	1-247-839-00	CARBON	2.2K	5%	1/6W
R3	1-247-807-00	CARBON	100	5%	1/6W
R4	1-247-849-00	CARBON	5.6K	5%	1/6W
R5	1-247-831-00	CARBON	1K	5%	1/6W
R6	1-247-855-11	CARBON	10K		
R7	1-247-799-00	CARBON	47	5%	1/6W
R8	1-247-863-00	CARBON	22K	5%	1/6W
R9	1-247-879-00	CARBON	100K	5%	1/6W
R101	1-247-827-00	CARBON	680	5%	1/6W
R102	1-247-831-00	CARBON	1K	5%	1/6W
R103	1-247-831-00	CARBON	1K	5%	1/6W
R104	1-247-831-00	CARBON	1K	5%	1/6W
R105	1-247-855-00	CARBON	10K	5%	1/6W
R106	1-247-849-00	CARBON	5.6K	5%	1/6W
R107	1-247-847-00	CARBON	4.7K	5%	1/6W
R108	1-247-887-00	CARBON	220K	5%	1/6W
R109	1-247-833-00	CARBON	1.2K	5%	1/6W
R110	1-247-857-00	CARBON	12K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R111	1-247-831-00	CARBON	1K	5%	1/6W
R112	1-247-867-00	CARBON	33K	5%	1/6W
R113	1-247-813-00	CARBON	180	5%	1/6W
R114	1-247-867-00	CARBON	33K	5%	1/6W
R115	1-247-867-00	CARBON	33K	5%	1/6W
R116	1-247-855-00	CARBON	10K	5%	1/6W
R117	1-247-847-00	CARBON	4.7K	5%	1/6W
R118	1-247-849-00	CARBON	5.6K	5%	1/6W
R119	1-247-807-00	CARBON	100	5%	1/6W
R120	1-247-855-00	CARBON	10K	5%	1/6W
R121	1-247-855-00	CARBON	10K	5%	1/6W
R123	1-247-855-00	CARBON	10K	5%	1/6W
R124	1-247-807-00	CARBON	100	5%	1/6W
R127	1-247-799-00	CARBON	47	5%	1/6W
R128	1-247-867-00	CARBON	33K	5%	1/6W
R129	1-247-817-00	CARBON	270	5%	1/6W
R130	1-247-819-00	CARBON	330	5%	1/6W
R131	1-247-855-00	CARBON	10K	5%	1/6W
R132	1-247-867-00	CARBON	33K	5%	1/6W
R133	1-247-849-00	CARBON	5.6K	5%	1/6W
R134	1-247-827-00	CARBON	680	5%	1/6W
R135	1-247-865-00	CARBON	27K	5%	1/6W
R136	1-247-879-00	CARBON	100K	5%	1/6W
R137	1-247-879-00	CARBON	100K	5%	1/6W
R138	1-247-879-00	CARBON	100K	5%	1/6W
R139	1-202-467-17	SOLID	3.3M	5%	1/4W
R140	1-216-294-00	METAL CHIP	10M	5%	1/8W
R141	1-216-294-11	METAL CHIP	10M		
R142	1-247-863-00	CARBON	22K	5%	1/6W
R143	1-247-831-00	CARBON	1K	5%	1/6W
R144	1-247-849-00	CARBON	5.6K	5%	1/6W
R145	1-247-863-00	CARBON	22K	5%	1/6W
R146	1-247-847-00	CARBON	4.7K	5%	1/6W
RV101	1-230-071-00	RES, VAR, CARBON 20K (VOLUME)			
S1	1-554-509-21	SWITCH, SLIDE (BAND)			
S2	1-553-961-00	SWITCH, SLIDE (SW BAND)			
S101	1-570-162-11	SEITCH, SLIDE (FUNCTION)			
S102	1-570-194-11	SWITCH, SLIDE (REC/PB)			
S103	1-554-123-00	SWITCH, SLIDE (TONE)			
S104	1-554-123-00	SWITCH, SLIDE (ISS)			
S105	1-554-024-00	SWITCH, LEAF (POWER)			
S701	1-553-510-00	SWITCH, SLIDE (PAUSE)			
SP901	1-503-449-11	SPEAKER			
T101	1-433-255-00	TRANSFORMER, BIAS OSCILLATOR			

Sony Corporation

English
85E0433-1
Printed in Japan

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